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University of Michigan BUHR

A PRELIMINARY

# CATALOGUE

OF THE

## BERNICE PAUHI BISHOP MUSEUM

OF

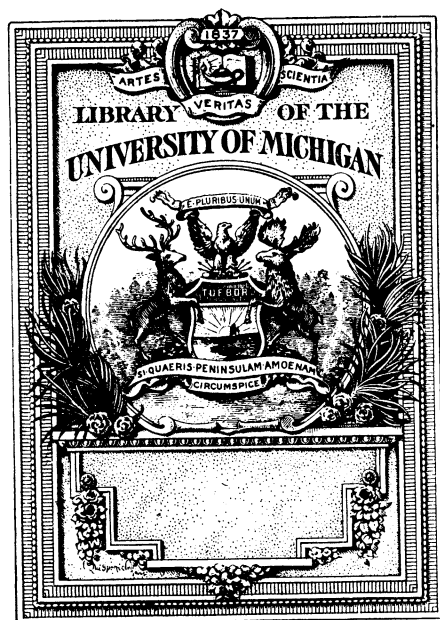
POLYNESIAN ETHNOLOGY AND NATURAL  
HISTORY.

PART IV.

The Natural History Collection.

HONOLULU, HAWAIIAN ISLANDS.

1892.



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### POLYNESIAN ETHNOLOGY AND NATURAL HISTORY.

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#### PART IV.

The Natural History Collections.

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HONOLULU, HAWAIIAN ISLANDS.  
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It is hoped that in time the Catalogue of the Bishop Museum may be an epitome of the Natural History of these Islands, if not of all Polynesia. At present this may not be, and on the part of science it were of little use to print the meagre lists of what the Museum now possesses, but on the other hand the opportunity to make known to the Hawaiian public our wants, and to call attention to the very interesting specimens that we now have in our collection, ~~seems an~~ excuse for presenting the fourth part of this Catalogue. It was in the mind of the Curator to print at large lists of all the described species in each department, checking those now represented here, but the impossibility of getting access to scientific records in this remote place, and the fact that the respectable library of the late W. H. Pease, now the property of the Hawaiian Government, but at present in the hands of private parties, is temporarily inaccessible to those who might profit by its use, make an accurate determination of species impossible.

Moreover by the active explorations of Messrs. Henry C. Palmer and R. C. L. Perkins, both of England, new species are being added to our lists almost weekly, the former having discovered several most interesting species of birds, while the latter has nearly doubled the number of species in our insect fauna. By Mr. Perkins' collecting this Museum will eventually be enriched; and other museums, if not this, will profit by the work of Mr. Palmer. The birds at present on our shelves were for the most part the collection of Mr. J. Mills of Hilo, Hawaii, and were collected more than thirty years ago. Others have been added by the kindness of Messrs. W. F. Thrum, Albert F. Judd, Jr., and others whose names will appear in the Catalogue.

The principal collection of land shells has come to the Museum by purchase from Mr. D. D. Baldwin of Maui, who is about to publish a complete list of described species. The names attached to the specimens are generally his, but it may safely be said that there is no part of the Hawaiian fauna that requires such complete re-examination and recasting of species. Beautiful as are many of the genus *Achatinella*, their study is greatly impeded by the confused and unauthoritative nomenclature, no two collections that the Curator has yet examined agreeing in the names of a very considerable

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minority of species. The marine shells are mainly from the Government collection, but many indigenous species are from Mr. Baldwin.

The only fishes in the Museum are those kindly presented by Charles H. Townsend of the U. S. Steamer *Albatros*, and perhaps half a dozen specimens given by other friends. In a group of islands where curious fish abound on the reefs and along the shores, this condition should soon be changed.

It is within the plan of the Curator to procure a collection of human crania and skeletons where possible from all parts of Polynesia, but at present we have but a dozen Hawaiian skulls.

The corals of the Pacific yield in beauty and interest to those of no other region, and when it becomes possible to study the rich treasures of Fiji, Tahiti, and Micronesia in one grand collection on the shelves of this Museum by the side of all that are found on the Hawaiian reefs, science as well as curiosity will be attracted to our halls.

Of the vegetable kingdom we have a better account. The labors of the late Horace Mann were so thorough that in the quarter of a century since his death only half a dozen species have been added to the Hawaiian Flora, while his own and the Curator's explorations in 1864-65, included no less than seventy-five new species, and five new genera of flowering plants. Specimens of these will soon be on the Museum lists, as the Curator possesses the type specimens named by Mr. Mann. Of the woods of these Islands, the Messrs. Meyer of Molokai have furnished admirable specimens of those growing on that island, and we hope soon to have all the indigenous varieties, as well as those of foreign introduction that are of value or interest. Weaving was unknown to the Hawaiians, and so the many valuable vegetable fibres were spun into lines, or beaten into kapa, but never fully utilized: these should find a place here. Indeed the economic botany of the Hawaiian Islands, will finally fill many cases in our collection. The woods and ferns of New Zealand are well represented.

It will naturally be expected, that the volcanic products will be in full force in our cases, and in fact we have a fairly representative collection. More specimens are needed of the soils and other products of the decomposition of lavas.

*Birds of the Hawaiian Islands.*

While awaiting the completion of Mr. Scott B. Wilson's work on the Hawaiian birds, we are unfortunately obliged to retain specific names that will probably, if we may judge by the changes already made, be replaced by others. In some cases no name is given. The constant change of names by each succeeding writer on grounds often of the most trivial nature, tends to cast discredit on science, and discourage those of the laity interested in the pursuit of Nature, quite as much as the undoubtedly excellent work of these writers excites the reader to further enquiries in this very delightful field. It is now common to give a page of synonyms to a few lines of useful description. The Hawaiian birds are in a case in the Kahili Room.

**5450-5453** *Drepanis pacifica*, *Mamo*. This bird, which furnished the orange feathers for the cloaks and leis has of late years become very rare; several have been caught by Mr. Palmer, and the Curator saw three on a sandalwood tree beneath which he was encamped on the slopes of Hualalai in 1890. The present specimens were all obtained by Mills at Olaa, Hawaii, some thirty years ago.

**5454-5462** *Acrulocercus nobilis*, *Oo*. This is the source of the yellow feathers used in the majority of the feather cloaks and helmets. The tufts [not single feathers] are found in the axillæ. The male alone of this species has the peculiarly curly tail which gives the inappropriate name to the genus. Hawaii.

**5463-5465** *Acrulocercus braccatus*, *Oo aa*. This species has small yellow feathers on the thigh, but none under the wings. Kauai.

**5466-5467** *Chaetoptila angustipluma*. An exceedingly rare bird, not more than six specimens being known. Hawaii. Mills.

**5468** *Fringilla anna*, *Ulaaihawane*. Named by Sanford B. Dole. A rare bird, and one of the most beautiful. Hawaii.

- 5469-5470** *Pennula ecaudata*, *Moho*. No specimen has been collected for many years, and the bird is supposed to be extinct. These were collected by Mills thirty years ago, in the forests back of Hilo, Hawaii. Although called "wingless," the better term is "flightless," for they have rudimentary wings, quite sufficient to put their heads under when asleep; they have no tails. A study of the remarkably similar form from Laysan Id. shows a curious habit of standing on one leg, the power of flying from the floor to a chair seat, and remarkable muscular development of the leg; although much larger than a canary, they pass readily through the bars of an ordinary cage. They seen omnivorous, even eating greedily parts of their dead companions, and drinking a great deal of water.
- 5471** *Bernicla sandwicensis*, *Nene*. This Hawaiian goose was presented by Scott B. Wilson.
- 5472** *Numenius tahitiensis*, *Kioea*. This curlew was shot and presented by S. Edw. Damon, near Moanalua, Oahu.
- 5473** *Corvus hawaiiensis*, *Alala*. Hawaiian crow from the Mills collection. S. Kona, Hawaii.
- 5474** *Loxioides balleui*. Mr. Wilson gives *Palilu* as the native name, but I know of no authority for it. Mr. Wilson's native names are often wrong, as he accepted names from natives who no longer retain the careful nomenclature of the ancients. This bird is called *ou*, as often as anything. Hawaii. Mills.
- 5475-5481** *Vestiaria coccinea*, *Iiwi* or *Iiwi polena*. According to Mr. F. Gay it is also called *Olokele* on Kauai. Found on all the islands of the group, it is not strange that the name should vary, but in the songs and legends, the more common *Iiwi* is always used. Apparently on Kauai the natives have applied the name of the well known valley to the bird found in it. The young and the female differ greatly from the mature male. Hawaii. Mills.
- 5482-5483** *Vestiaria coccinea*. Lanai. Presented by Mr. F. H. Hayselden. The color has been largely destroyed by the alcohol in which the birds were preserved.



- 5484 *Chasiempis sandwichensis*, *Elepaio*. There are five speci-  
 5485 " mens of *elepaio* in the collection, all from  
 5486 " Hawaii. Mills. As the names are likely to  
 5487 " be changed by Mr. Wilson, they have been  
 5488 " left under the old name; the natives make no  
 distinction of species in this genus, which has  
 always been distinguished in Hawaiian song  
 and myth.
- 5489 *Chasiempis gayi*. Nuuanu Valley, Oahu. Presented by  
 F. C. L. Perkins.
- 5490 *Phaeornis obscura*, *Amaui*. Mr. Wilson calls this bird  
 5491 " " *Omau*, but I believe that to be a  
 5492 " " corruption of the original name.  
 " " Hawaii. Mills.
- 5493 " " F. C. L. Perkins.
- 5494 *Phaeornis lanaiensis*. Lanai. F. H. Hayselden.
- 5495 " " " "
- 5496 " " " " Young.
- 5497 *Chloridops konae*. Hawaii. F. C. L. Perkins.
- 5498 *Himatione sanguinea*, *Apapane*. The bird common all  
 over the group, which furnishes the crimson feathers for  
 decorative purposes. Hawaii. Mills. Female. Also  
 called *Akakane*.
- 5499 *Himatione sanguinea*. Hawaii. Mills.
- 5500 " " " "
- 5501 " " " "
- 5502 " " " "
- 5503 " " " "
- 5504 " " " "
- 5505 " " " "
- 5506 " " " "
- 5507 " " " " with nest.
- 5508 " " " " " "
- 5509-11 " " " "
- 5512 *Ardea exilis*, *Auku*. V. Knudsen, Kauai.
- 5513 " " James F. Judd, Koolau, Oahu.
- 5514 *Nycticorax nycticorax griseus*, *Auku kohili*. Oahu. Rev.  
 C. M. Hyde.

- 5515 *Nycticorax nycticorax griseus*.
- 5516 *Loxops coccinea*, *Akepa*. One of the rare birds. Wilson gives the name with much assurance as *Akepeuie*, a name probably manufactured for his especial benefit. This author seems determined to impose new native names, as well as new ornithological appellations.
- 5517 *Phaeton aetherius*, *Koae*. Tropic bird.
- 5518 " " James F. Judd, Oahu.
- 5519 *Phaeton rubricauda*, *Koae Ula*, or simply *Ula*. Red-tailed tropic bird.
- 5520 *Phaeton rubricauda*.
- 5521 *Buteo solitarius*, *Io*. Hawk. Hawaii. Mills.
- 5522 " " male. Hawaii, 7,000 ft. W. F. Thrum.
- 5523 " " female. " " "
- 5524 " " male. " " " Young.
- 5525 *Psittirostra psittacea*, *Ou*, male. Hawaii. Mills.
- 5526 " " " " "
- 5527 " " female. " "
- 5528 " " male. " "
- 5529 " " female. " "
- 5530 " " male. " "
- 5531 " " female. " "
- 5532 " " male. Lanai. Hayselden.
- 5533 " " female. " "
- 5534 " " " " "
- 5535 " " " " "
- 5536 *Gallinula chloropus*, *Alae*. Mud-hen, with nest and eggs. Hawaii. Mills.
- 5537 *Gallinula chloropus*, *Alae*.
- 5538 *Fulica alae*, *Alae keokeo* or *Alae kea*. Coöt. Oahu. A. F. Judd, Jr.
- 5539 *Totanus incanus*, *Ulili*. Oahu.
- 5540 " " " "
- 5541 *Himatione virens*, *Kamau* on Kauai.
- 5542 " " Hawaii. Mills.
- 5543 " " " "
- 5544 " " " "
- 5545 " " " "

- 5546 *Himatione chloridioides*. Lanai. F. H. Hayselden.  
 5547 " " " "  
 5548 " " " "  
 5549 *Himatione montana*.  
 5550  
 5551 *Asio accipitrinus*, *Pueo*. Owl. Hawaii. R. C. L. Perkins.  
 5552  
 5553 *Aestrellata sandwicensis*, *Uau*. Kauai. V. Knudsen.  
 5554 *Sterna lunata*, *Kala*. Koolau, Oahu. J. F. Judd.  
 5555 *Nycticorax nycticorax naevius*, *Auku* or *Auku kohili*.  
 Night Heron.  
 5556 *Ardea exilis*, *Auku*. Speckled Heron. Oahu.  
 5557 *Charadrius fulvus*, *Kolea*. Plover. Hawaii. Mills.  
 5558 " " " " Oahu. S. G. Wilder.  
 5559 *Hemignathus olivaceus*, *Akihialoa*. Hawaii. Mills.  
 5560 *Hemignathus obscurus*, *Akihialoa*. " "  
 5561 " " " " "  
 5562 Flightless bird from Laysan Island, male. Mrs. G. D. Freeth.  
 5563 Flightless bird from Laysan Island, female. Mrs. G. D. Freeth.  
 5564 Laysan Island Canary, female. Mrs. G. D. Freeth.  
 5565 " " " " "  
 5566 " " " " " The flightless bird closely resembles the Hawaiian Moho in habits and general appearance, but with the hair-splitting of modern ornithologists, it will probably be placed in another genus if allowed to remain in the same family. The "canary" as closely resembles the Hawaiian Ou, the head and bill being exactly like the outline of Ou given by Wilson.  
 5567 *Eulabes religiosa*, *Mina*. A pest introduced by Dr. Hillebrand.

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*The following were presented by A. F. Judd, Jr., from his own Collection:*

- 5568 *Streptilas interpres Akekeke*. Koolau, Oahu.  
 5569 *Acrulocercus braccatus Oo oa*. Puukapele, Waimea, Kauai.  
 5570 *Hemignathus olivaceus Akihialoa*. " " "

- 5571 *Anous melanogenys* *Noio*. Moanalua, Oahu.  
 5572 *Totanus incanus* *Ulili*. Makaweli, Kauai.  
 5573 *Himatione stejnegeri* *Amakihi*. Waimea, Kauai.  
 5574 *Streptilas interpres* *Akekeke*. Kualoa, Oahu.  
 5575 *Charadrius fulvus* *Kolea*. Kualoa, Oahu.  
 5576 *Anas wyvilliana* *Koloa maoli*. Moanalua, Oahu.  
 5577 *Gallinula galeata* *Alae ula*. Kualoa, Oahu.  
 5578 *Anas wyvilliana* *Koloa maoli*. Male. Moanalua, Oahu.  
 5579 ..... *Oeoe?* Sea-swallow. Kauai.  
 5580 *Himatione stejnegeri* *Amakihi*. Waimea, Kauai.  
 5581 *Chasiempis dolei* *Apekepeke*. Puukapele, Waimea, Kauai.  
 5582 *Vestiaria coccinea* *Iiwi*. Puukapele, Waimea, Kauai.  
 5583 *Himantopus knudseni* *Kukuluaoe*. Waimea, Kauai.  
 5584 *Phaeton aetherius* *Koae*. Puunui, Hunamu, Oahu.  
 5585 " " " Waimea, Kauai.  
 5586 *Gallinula galeata* *Alae ula*. Waikiki, Oahu.  
 5587 *Ardea exilis* *Auku*. Kaawa, Oahu.  
 5588 Rice-birds. Several so-called rice-birds have escaped from cages, and are now a common nuisance on the rice-fields. Their nest is large with a small opening; a specimen with eggs is in the case.

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## A LIST OF THE NATIVE NAMES OF HAWAIIAN BIRDS.

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In this list are included the names found in Judge Andrews' Dictionary [1865]: those collected by the Curator [1864-65]: those given by Judge Dole [1869] and some of the new and generally local names collected by Mr. Wilson [1888]. Very few of Mr. Wilson's names are generally known, and they are here given only for the convenience of those who may be familiar with his fine work, not because they are considered necessarily authentic. It should be stated that where a bird ranges all over the group it often has a number of aliases. The old bird-catchers, however, were remarkably quick in determining species, and their names seem to have been tolerably uniform on all the islands. They often gave a distinct name to the female in those cases where there is a marked difference between the sexes. When feathers ceased to be an article of barter

the bird-catchers disappeared and with them all definite knowledge of bird names among the Hawaiians. At the present day hunters have been known to call a small green bird by the name of the black mamo, and indeed no confidence can be placed in the names given by natives to collectors at present. Almost the only native names determined beyond doubt are those commonly mentioned in ancient song and legend, and those whose names are onomatopoeic, as the Alalá, etc.

Aaianuheakane,	
Aeo,	<i>Himantopus knudseni</i> .
Akakane = Apapane,	<i>Oreomyza bairdi</i> .
Akeake,	
Akeke = Akekeke = Keke,	<i>Streptopelia interpres</i> .
Akekee,	
Akepa,	<i>Loxops coccinea</i> .
Akepeuie = Akepa,	<i>Loxops coccinea</i> .
Akialoa = Akihiāloa,	<i>Hemignathus olivaceus</i> .
Akihiāloa,	<i>Hemignathus olivaceus</i> .
Akihipolena – Iiwi,	<i>Vestiaria coccinea</i> .
Akikiki = Akakane,	<i>Oreomyza bairdi</i> .
Akohekohe,	
Alaalai = Aloe,	
Alae,	<i>Gallinula galeata sandwicensis</i> .
Alae keokeo or Alae kea, or nukea.	<i>Fulica alae</i> .
Alala,	<i>Corvus hawaiiensis</i> .
Alauwahio = Alawi = Lauwi,	<i>Himatione parva</i> .
Amakahi,	<i>Chasiempis sclateri</i> .
Amakihi,	<i>Himatione stejnegeri</i> .
Amakika,	
Amani = Omao,	
Ananani,	<i>Himatione chloris</i> .
Apane = Apapane,	<i>Himatione sanguinea</i> ,
Apapane,	<i>Himatione sanguinea</i> .
Apekepeke,	<i>Chasiempis dolei</i> .
Auku,	<i>Ardea exilis</i> .
Auku kohili,	<i>Nycticorax nycticorax naevius</i> .
Aukuu = Auku kohili,	<i>Nycticorax nycticorax</i> .
Elepaio,	<i>Chasiempis</i> . All species.
Ewaewa,	<i>Sterna fuliginosa</i> .

Haakoae = Koae,  
 Hunakai,  
 Iiwi,  
 Io,  
 Iwi = Iiwi,  
 Iwa,  
 Kaio = Io,  
 Kaka = Koloa maoli,  
 Kakawahie,  
 Kala,  
 Kamau,  
 Kanono,  
 Kaunaanau = Kaunaanalau,  
 Keke = Akeke,  
 Ki,  
 Kiki,  
 Kioea,  
 Kiwaa,  
 Koae,  
 Koae ula or Ula,  
 Kolea,  
 Koloa maoli = Kaka,  
 Koloa mapu,  
 Koloa moa,  
 Kukuluao,  
 Laka,  
 Lauwi = Alauwahio,  
 Lale,  
 Leleu,  
 Lio, or Liolio,  
 Mamo,  
 Moho,  
 Mu,  
 Nau kane,  
 Nene,  
 Noio = Oio,  
 Nukupuu,  
 Oio = Noio,  
 Olokele = Iiwi,  
 Olomao = Olomau,

*Phaeton aethereus.*  
*Calidris arenaria.*  
*Vestiaria coccinea.*  
*Buteo solitarius.*  
*Vestiaria coccinea.*

*Buteo solitarius.*  
*Anas wyvilliana.*  
*Loxops flammea.*  
*Sterna lunata.*  
*Phoeornis obscura.*

*Strepsilas interpres.*

*Numenius tahitiensis.*

*Phaeton aethereus.*  
*Phaeton rubricanda.*  
*Charadrius fulvus.*  
*Anas wyvilliana.*  
*Dafila acuta.*  
*Spatula clypeata.*  
*Himantopus knudseni.*

*Himatione parva.*

*Drepanis pacifica.*  
*Pennula ecaudata.*

*Puffinus cuneatus.*  
*Bernicla sandvicensis.*  
*Anous melanogenys.*  
*Hemignathus hanapepe.*  
*Anous melanogenys.*  
*Vestiaria coccinea.*  
*Phaeornis obscura.*

Omao = Omau,	<i>Phaeornis obscura.</i>
Oo,	<i>Acrulocercus nobilis.</i>
Oo aa,	<i>Acrulocercus braccata.</i>
Ou,	<i>Psittirostra psittacea.</i>
Ou holowai.	<i>Chrysomitridops cæruleirostris.</i>
Ouou,	<i>Psittirostra psittacea.</i>
Pakalakala = Kala,	<i>Sterna lunata.</i>
Palila,	<i>Loxioides bailleui.</i>
Pipi,	
Piwai,	
Polena = Iiwipolena,	<i>Vestiaria coccinea.</i>
Pueo,	<i>Asio accipitrinus.</i>
Uapauau,	<i>Phaeornis mydiadestina.</i>
Ukaka.	<i>Acrulocercus nobilis.</i> Female.
Ukeke. . Ukekeke = Akekeke,	<i>Strepsilas interpres.</i>
Ulaaihawane,	<i>Fringilla anna.</i>
Ulili,	<i>Totanus incanus.</i>
Uau = Uwau,	<i>Æstrelata phæopygia.</i>

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*Eggs of Hawaiian Birds.*

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5589	Kukuluaeo.	A. F. Judd, Jr.	1
5590	Alae.	"	1
5591	Alae kea.	"	2
5592	Alae awi [foreign].	"	2
5593	Koae.	"	1
5594	Koae ula.	"	3
5595	Mina.	"	8
5596	Sparrow.	"	4
5597	Rice bird.	"	10
5598	" "	G. R. Carothers.	4
5599	Alae.		5

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*Fishes, Crustacea, Radiates, etc.*

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The collection in this department is so small that no attempt will be made to classify the specimens, but they will be given in numerical order. Very few of the specimens have been studied. Arrangements

have been made which will probably result in a tolerably complete collection of Hawaiian fish and echinoderms which will be ready for exhibition when the new Hall is completed.

- 5700 Shrimps *Pandalus* sp. Albatros, 3091.\*  
 5701 " " " Deep water.  
 5702 " " " 3129.  
 5703 " Opae. HG.  
 5704 " " HG.  
 5705 Hermit crab, *Caenobita tricarinata*. HG.  
 5706 Crab. Albatros. Coast of California.  
 5707 " HG.  
 5708 " HG.  
 5709 " Albatros. Sta. Rosa, California.  
 5710 " " Sta. Rosa Channel.  
 5711 " HG.  
 5712 " HG.  
 5713 " HG. Hawaiian.  
 5714 " JSE. "  
 5715 " "  
 5716 " "  
 5717 " "  
 5718 Skate, *Raia rhina*. Albatros. 982. Californian coast, deep water.  
 5719 *Sebastes*. Albatros. Californian coast.  
 5720 *P. stellatus*. Ounalaska. Albatros.  
 5721 Sculpins (5). Albatros. Alaskan coast.  
 5722 Shark, young. " Sta. Barbara Channel.  
 5723 Flounders (2). *Citharichthys sordida*. Seattle.  
 5724 Whiting, *Merlucius productus*. Albatros. Oregon coast.  
 5725 Cod, young. Albatros 3252.  
 5726 Fish (several kinds). Albatros. Cod banks, Bering's Sea.  
 5727 " (6). Albatros. Drake's Bay, California.  
 5728 Squid. " Clarion Island.  
 5729 Star-fish. *Hymenaster* sp. Albatros. Profound depths.  
 5730 " Albatros.  
 5731 " "

\* The specimens from the U. S. Fish Commission Str. Albatros were presented by Dr. C. H. Townsend.



- |         |                             |                         |   |
|---------|-----------------------------|-------------------------|---|
| 5732    | Star-fish (2).              | Albatros.               |   |
| 5733    | <i>Pentacrinus decora</i> . | Havana.                 | Albatros.                                     |
| 5734    | Crinoid 3079.               | Albatros.               |   |
| 5735    |                             |                         |   |
| 5736    | Star-fish.                  | <i>Asterias</i> .       | Bering's Sea. Albatros.                       |
| 5737    | "                           | <i>Astrophyton</i> .    | Near Pribyloff Ids. 50 fathoms.<br>Albatros.  |
| 5738    | "                           | Albatros.               | 3126.   |
| 5739    | "                           | "                       | 3075. 47° 22' N., 125° 41' W. 859<br>fathoms. |
| 5740    | "                           | Albatros.               | 3075.   |
| 5741    | "                           | "                       | 3030. 31° 37' N., 114° 29' W. 20<br>fathoms.  |
| 5742    | "                           | Albatros.               | Monterey Bay.                                 |
| 5743    | "                           |                         |   |
| 5744    | "                           |                         |   |
| 5745    | "                           |                         |   |
| 5746    | "                           |                         |   |
| 5747-49 | Star-fish.                  | HG.                     |   |
| 5750-52 | Sea-urchin.                 | <i>Encope grandis</i> . | Gulf of Cal. Albatros.                        |
| 5753    | Star-fish.                  | Waikiki.                | WTB.  |
| 5754    | "                           | "                       | WTB.  |
| 5755    | Sea-urchin.                 | Albatros 2887.          | 43° 58' N., 127° 57' W.                       |
| 5756    | "                           | HG.                     |   |
| 5757    | "                           | Albatros 2887.          | Alaska.                                       |
| 5758-60 | "                           | "                       | Pacific coast.                                |
| 5761    | "                           | Hawaiian.               |   |
| 5762    | "                           | "                       |   |
| 5763-64 | "                           | "                       | shells only.                                  |
| 5765-67 | "                           | "                       |   |
| 5768    | Sea-urchin.                 | Hawaiian.               |   |
| 5769    | "                           | "                       |   |
| 5770    | Star-fish.                  | Brittle star.           | Hawaiian.                                     |
| 5771    | Sea-urchin.                 | Common purple.          | Hawaiian.                                     |
| 5772    | "                           | "                       | " " Waikiki. WTB.                             |
| 5773    | "                           | Waikiki.                | WTB.  |
| 5774    | "                           | Hawaiian.               | Shell only.                                   |
| 5775    | Sea-cucumber.               | <i>Holothuria</i> .     | Dried.  |
| 5776    | "                           | "                       | "   |

- 5777 Cuttle-fish bone.  $11\frac{1}{2} \times 4$  in.  
 5778 Squid, small. HG.  
 5779 *Schizaster* sp. Albatros 3081.  $43^{\circ} 59' N.$ ,  $124^{\circ} 20' W.$  61 fathoms.  
 5780 Albatros 3251.  $57^{\circ} 35' N.$ ,  $164^{\circ} 05' W.$  25 fathoms.  
 5781 Albatros. Off Vancouver's Id.  
 5782 *Pandalus* sp. HG.  
 5783 Garter snakes, young. Killed on Smith St., Honolulu, 1885. P. C. Advertiser.  
 5784 Walking-stick (3.) *Phasmidae*. HG.  
 5785 Albatros 3292.  $57^{\circ} 14' N.$ ,  $159^{\circ} 45' W.$   
 5786 *Aulostoma chinensis*, Schl. young. Waikiki. E. O. White.  
 5787 *Diodon atinga*. Skin, New Zealand. C.  
 5788 Fish skin. New Zealand. C.  
 5789-99 Hawaiian crania. HG.

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*Land Shells.*

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ACHATINELLA.—APEX GROUP.

- |      |   |           |               |
|------|---|-----------|---------------|
| 5800 | <i>A. bicolor</i> .                     | Gulick.   | Lihue, Oahu.  |
| 5801 | <i>cestus</i> .                         | Newcomb.  | Palolo, "     |
| 5802 | <i>cinerosa</i> .                       | Pfeiffer. | Oahu.         |
| 5803 | <i>concavospira</i> .                   | "         | "             |
| 5804 | <i>concidens</i> .                      | Gulick.   | Waimea, Oahu. |
| 5805 | <i>coniformis</i> .                     | "         | Kalaikoa, "   |
| 5806 | <i>decora</i> .                         | Férussac. | Kalihi, "     |
| 5807 | " var.                                  | "         | "             |
| 5808 | <i>forbesiana</i> .                     | Pfeiffer. | Oahu.         |
| 5809 | <i>gulickii</i> .                       | Smith.    | Kalaikoa, "   |
| 5810 | <i>leucophoea</i> .                     | Gulick.   | Waialae, "    |
| 5811 | <i>leucoraphe</i> .                     | "         | Kalaikoa, "   |
| 5812 | <i>leucozona</i> .                      | "         | Waialae, "    |
| 5813 | <i>lilacea</i> .                        | "         | Kalaikoa, "   |
| 5814 | <i>lorata</i> .                         | Férussac. | Tantalus, "   |
| 5815 | <i>lorata</i> var. ( <i>ventrosa</i> .) | Pfeiffer. | " "           |
| 5816 | "                                       | Férussac. | " "           |
| 5817 | " var. ( <i>nobilis</i> .)              | Pfeiffer. | Kalihi, "     |

5818	lugubris.	Chemnitz.	Wailua, Oahu.	Extinct.
5819	multilineata.	Newcomb.	Waianae, "	
5820	mustelina.	Mighels.	" "	
5821	perversa.	Swainson.	Waialua, "	
5822	" ?	"	Halemanu, "	
5823	polymorpha.	Gulick.	Waipio, "	
5824	pulchella.	Pfeiffer.	Oahu.	
5825	sordida.	Newcomb.	Lihue, "	
5826	swiftii.	"	Waialua, "	
5827	" var.	"	" "	
5828	" var.	"	" "	
5829	tuberans.	Gulick.	Kalaikoa, "	
5830	tumefacta.	"	Wahiawa, "	
5831	turbiniiformis?	"	Waianae, "	
5832	turgida.	Newcomb.	Ewa, "	
5833	valida.	Pfeiffer.	Waianae, "	
5834	versicolor.	Gulick.	Kalaikoa, "	
5835	vittata.	Reeve.	Nuuanu, "	Extinct.
5836	n. sp.		Kawailoa, "	
5837	sp.			
5838	sp.			
5839	sp.			
5840	sp.			

ACHATINELLA.—ACHATINELLASTRUM GROUP.

5841	A. albescens.	Gulick.	Waimea, Oahu.	
5842	ampla.	Newcomb.	Koolau, "	
5843	augusta.	Smith.	Waialae, "	
5844	bellula.	"	Konahuanui, Oahu.	
5845	" var.	"	" "	
5846	" var.	"	" "	
5847	buddii.	Newcomb.	Niu, Oahu.	
5848	casta.	"	Ewa, "	
5849	castanea.	Reeve.	Tantalus, "	
5850	" (var. adusta.)	"	" "	
5851	colorata.	Smith.	Ahuimanu, "	
5852	consanguinea.	Reeve.	"	
5853	contracta.	Gulick.	Hauula, "	

5854	crassidentata (doubtful sp.)	Pfeiffer.	Palolo, Oahu.	
5855	cucumis.	Gulick.	Kalihi,	"
5856	curta.	Newcomb.	Waialua,	"
5857	" (var. rhodoraphe)	Smith.	Kalaikoa,	"
5858	delta.	Gulick.	"	"
5859	diversa.	"	Palolo,	"
5860	" var.	"	"	"
5861	" var.	"	"	"
5862	dunkeri.	Cuming.	Tantalus,	"
5863	emersoni.	Newcomb.	Waialua,	"
5864	fulgens.	"	Palolo,	"
5865	fusco-lineata.	Smith.	Kailua,	"
5866	fuscozona.	"	Makiki,	"
5867	glauca.	Gulick.	Kawailoa,	"
5868	herbacea.	"	Waimea,	"
5869	johnsonii.	Newcomb.	Tantalus,	"
5870	livida.	Swainson.	Waialua,	" Extinct.
5871	olivacea.	Reeve.	Tantalus,	"
5872	plumata.	Gulick.	Ni'u,	"
5873	prasina.	Reeve.	Palolo,	"
5874	producta.	"	Tantalus,	"
5875	recta.	Newcomb.	Waialua,	"
5876	" var. nympha.	Gulick.	Halemanu,	"
5877	" var. nympha.	"	Kalaikoa,	"
5878	stewartii.	Green.	Tantalus,	"
5879	tricolor.	Smith.	Heeia,	"
5880	trilineata.	Gulick.	Palolo,	"
5881	undulata.	Newcomb.	Waialua,	"
5882	varia.	Gulick.	Palolo,	"
5883	varia, var,	"	"	"
5884	" "	"	"	"
5885	virens.	"	Halawa,	"
5886	vulpina.	Férussac.	Tantalus,	"
5887	zonata.	Gulick.	Waimea,	"
5888			Waialua,	"
5889	n. sp.		Nuuanu,	"
5890			Kalihi,	"

5891			Waialua, Oahu.
5892			" "
5893			
5894			
5895			

## ACHATINELLA.—BULLIMELA GROUP.

5896	A. abbreviata.	Reeve.	Palolo,	Oahu.
5897	" var bacca.	"	"	"
5898	bulimoides.	Swainson.	Kahana,	"
5899	byronii.	Gray.	Kalaikoa,	"
5900	candida.	Pfeiffer.		"
5901	corrugata.	Gulick.	Hakipuu,	"
5902	decipiens.	Newcomb.	Kahana,	"
5903	elegans.	"	Hauula,	"
5904	frickii.	Pfeiffer.	Kalaikoa,	"
5905	glabra.	Newcomb.	Koolauloa,	"
5806	mahogani.	Gulick.	Kalaikoa,	"
5907	multicolor.	Pfeiffer.		"
5908	obliqua.	Gulick.	Kahana,	"
5909	oömorpha.	"	"	"
5910	ovata.	Newcomb.	"	"
5911	phaezona.	Gulick.	Keawawa,	"
5912	pulcherrima.	Swainson.	Halemanu,	"
5913	rosea.	"	"	"
5914	" var.	"	"	"
5915	" var. (white)	"	"	"
5916	rotunda.	Gulick.	Kahana,	"
5917	rugosa.	Newcomb.	Ewa,	"
5918	rutila.	"	Niu,	"
5919	sowerbyana.	Pfeiffer.		"
5920	spadicea.	Gulick.	Kahana,	"
5921	subvirens.	Newcomb.	Niu,	"
5922	taeniolata.	Pfeiffer.	Palolo,	"
5923	" var. rubi-			
	ginosa.	Newcomb.	"	"
5924	torrida.	Gulick.	Kahana,	"
5925	vidua.	Pfeiffer.		"
5926	viridans.	Mighels.	Palolo,	"
5927	n. sp.		Konahuanui,	Oahu.
5928				
5929				

## ACHATINELLA.—PARTULINA GROUP.

5630	<i>A. baileyana.</i>	Gulick.	Wailuku, Maui.	
5931	<i>crassa.</i>	Newcomb.	Lanai.	
5932	<i>crocea.</i>	Gulick.	Waihee, Maui.	
5933	<i>dwrightii.</i>	Newcomb.	Molokai.	
5934	<i>eburnia.</i>	Gulick.	Makawao, Maui.	
5935	<i>fasciata.</i>	"	Honokawai, Maui.	
5936	<i>gouldii.</i>	Newcomb.	Wailuku, Maui.	
5937	<i>grisea.</i>	"	Makawao, "	Extinct.
5938	<i>helena.</i>	"	Molokai.	
5939	<i>induta.</i>	Gulick.	Wailuku, Maui.	
5940	<i>lignaria.</i>	"	"	"
5941	<i>marmorata.</i>	Gould.	Makawao, "	
5942	<i>minuscula.</i>	Pfeiffer.	Lahaina, "	
5943	<i>nattii.</i>	Baldwin & Hartman.	Makawao, "	
5944	<i>ornata.</i>	Newcomb.	Lahaina, "	Extinct.
5945	<i>perdix.</i>	Reeve.	"	"
5946	<i>physa.</i>	Newcomb.	Kohala, Hawaii.	
5947	<i>plumbea.</i>	Gulick.	Kula, Maui.	
5948	<i>proxima.</i>	Pease.	Molokai.	
5949	" var. <i>alba.</i>	"	"	
5941	<i>pyramidalis.</i>	Gulick.	Lahaina, Maui.	
5942	<i>radiata.</i>	Gould.	Maui.	Extinct.
5943	<i>redfieldii.</i>	Newcomb.	Molokai.	
5944	<i>rufa.</i>	"	"	
5945	<i>splendida.</i>	"	Lahaina, Maui.	
5946	<i>talpina.</i>	Gulick.	Wailuku, Maui.	
5947	<i>tappaniana.</i>	Adams.	Lahaina, "	
5948	<i>tessellata.</i>	Newcomb.	Molokai.	
5949	<i>undosa.</i>	Gulick.	Waihee, Maui.	
5950	<i>ustulata.</i>	"	Lahaina, "	
5951	<i>variabilis.</i>	Newcomb.	Lanai.	
5952	<i>virgulata.</i>	Mighels.	Molokai.	
5953	" var.	"	"	
5954	" "	"	"	
5955	" "	"	"	
5956	" "	"	"	
5957	<i>n. sp.</i>	"	"	
5958				
5959				

## ACHATINELLA.—LAMINELLA GROUP.

5960	<i>A. alexandri.</i>	Newcomb.	Lahaina, Maui.
5961	<i>bella.</i>	Reeve.	Molokai.
5962	" var.	"	"
5963	<i>bulbosa.</i>	Gulick.	Honuaula, Maui.
5964	<i>citrina.</i>	Pfeiffer.	Molokai.
5965	" var.	"	"
5966	<i>fröstii.</i>	Ancey.	Waianae, Oahu.
5967	<i>gravida.</i>	Férussac.	Palolo, Oahu.
5968	<i>mighelsiana.</i>	Pfeiffer.	Molokai.
5969	" ?	"	"
5970	<i>picta.</i>	Mighels.	Lahaina, Maui.
5971	" var.	"	" "
5972	" var.	"	" "
5973	<i>polita.</i>	Newcomb.	Molokai.
5974	<i>sanguinea.</i>	"	Waialua, Oahu.
5975	<i>straminea.</i>	Reeve.	Palolo, "
5976	<i>tetrao.</i>	Newcomb.	Lanai.
5977	<i>venusta.</i>	Mighels.	Molokai.
5978	<i>n. sp.</i>	"	"
5979			

## ACHATINELLA.—NEWCOMBIA GROUP.

5980	<i>A. cinnamomea.</i>	Pfeiffer.	Molokai.
5981	<i>cumingii.</i>	Newcomb.	Lahaina, Maui.
5982	<i>plicata.</i>	Mighels.	Molokai.

## ACHATINELLA.—AMASTRA GROUP.

5983	<i>A. affinis.</i>	Newcomb.	Kula, Maui.
5984	<i>assimilis.</i>	"	Lahaina, Maui.
5985	<i>biplicata.</i>	"	Lanai.
5986	<i>cornea.</i>	"	Waianae, Oahu.
5987	<i>crassilabrum.</i>	"	" "
5988	<i>decortica.</i>	Gulick.	Kawailoa, "
5889	<i>elliptica.</i>	"	Waialae, "
5990	<i>flavescens.</i>	Newcomb.	Hamakua, Hawaii.

5991	humilis.	Newcomb.	Molokai.
5992	hutchinsoni.	Pease.	Kula, Maui.
5993	inflata.	Pfeiffer.	Koolauloa, Oahu.
5994	intermedia.	Newcomb.	Waianae, "
5995	kauaiensis.	"	Halemanu, Kauai.
5996	luctuosa.	Pfeiffer.	Oahu.
5997	magna.	Adams.	Lanai.
5998	malleata.	Smith.	Kula, Maui.
5999	mastersii.	Newcomb.	Makawao, Maui.
6000	micans.	Pfeiffer.	Oahu.
6001	modesta.	Adams.	Molokai
6002	mucronata.	Newcomb.	Maui.
6003	nigra.	"	Kula, Maui.
6004	nigrolabris.	Smith.	Waiawa, Oahu.
6005	nubilosa.	Mighels.	Molokai.
6006	nucleola.	Gould.	Hanalei, Kauai.
6007	obesa.	Newcomb.	Kula, Maui.
6008	peasii.	Smith.	Waianae, Oahu.
6009	petricolor.	Newcomb.	Kula, Maui.
6010	porphyrea.	"	Waianae, Oahu.
6011	reticulata.	Gould.	" "
6012	rubida.	Gulick.	Kahuku, Oahu.
6013	rudis.	Pfeiffer.	Waianae, Oahu.
6014	rustica.	Gulick.	Kula, Maui.
6015	simularis.	Hartman.	Molokai.
6016	soror.	Newcomb.	Lahaina, Maui.
6017	spirizona.	Férussac.	Waianae, Oahu.
6018	textilis.	"	Oahu.
6019	tristis.	"	Palolo, Oahu.
6020	turritella.	"	Tantalus, Oahu.
6021	uniplicata.	Hartman.	Molokai.
6022	variegata.	Pfeiffer.	Waianae, Oahu.
6023	ventriculus.	Férussac.	Palolo, Oahu.
6024	violacea.	Newcomb.	Molokai.
6025	sp.		Molokai.
6026	n. sp.		"
6027	n. sp.		Waianae, Oahu.
6028	n. sp.		" "



6029	sp.	Honolua, Maui.
6030	sp.	Molokai.
6031	sp.	Lahaina, Maui.
6032		

## AURICULELLA.

6033	A. auricula.	Férussac.	Waianae, Oahu.
6034	brunnea.	Smith.	Molokai.
6035	" var.	"	"
6036	" var.	"	"
6037	crassula.	"	Makawao, Maui.
6038	diaphana.	"	Palolo, Oahu.
6039	lurida.	Pfeiffer.	Makawao, Maui.
6040	solida (doubtful sp.)	Gulick.	Oahu.
6041	umbilicata.	Ancey	Lahaina, Maui.
6042	uniplicata.	Pease.	" "
6043	n. sp.		Hana, "

## LEPTACHATINA.

6044	L. cerealis.	Gould.	Waianae, Oahu.
6045	chrysalis.	Pfeiffer.	Waialua, "
6046	corruscans.	Hartman.	Molokai.
6047	crystallina.	Gulick.	Waianae, Oahu.
6048	dimidiata.	Pfeiffer.	Halemanu, "
6049	fumosa.	Newcomb.	Manoa, "
6050	gracilis.	Pfeiffer.	Waianae, "
6051	grana.	Newcomb.	Makawao, Maui.
6052	guttula.	Gould.	Lahaina, "
6053	labiata.	Newcomb.	Waianae, Oahu.
6054	lacryma.	Gulick.	Lihue, "
6055	lagna.	"	Halemanu, "
6056	lucida?	Pease.	Kapaa, Hawaii.
6057	nitida.	Newcomb.	Lahaina, Maui.
6058	obclavata.	Pfeiffer.	Oahu.
6059	octogyrata.	Gulick.	Palolo, Oahu.
6060	parvula.	"	Lahaina, Maui.
6061	resinula.	"	Kawailoa, Oahu.
6062	stiria.	"	Halemanu, "

6063	striatula.	Gould.	Kauai.
6064	turgidula.	Pease.	Halemauu, Kauai.
6065	turrita.	Gulick.	Lihue, Oahu.
6066	sp.		Lahaina, Maui.
6067	sp.		Molokai.
6068	sp.		Waianae, Oahu.
6069	sp.		" "
6070	sp.		" "
6071	sp.		" "
6072	sp.		Honolua, Maui.
6073	sp.		

## HYALINA.

6074	H. baldwini.	Ancey.	Lahaina, Maui.
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## HELIX.

6075	E. abiellei.	Ancey.	Molokai.
6076	baldwini.	"	Halemanu, Oahu,
6077	cicercula.	Gould.	Kona, Hawaii.
6078	dignophora.	Ancey.	Waianae, Oahu.
6079	hartmani.	"	Kalaikoa, "
6080	indefinita.	"	Makawao, Maui.
6081	lamellosa.	Férussac.	Waianae, Oahu.
6082	oahuensis.	Ancey.	" "
6083	perlucens.	"	Molokai.
6084	plicosa.	"	Palolo, Oahu.
6085	rubiginosa.	Gould.	Waianae, "
6085	similaris (introduced)	Férussac.	Honolulu, "
6087	tiara.	Mighels.	Kauai.
6088			

## HELICINA.

6089	H. sandwicensis.	Souleyet.	Waianae, Oahu.
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## SUCCINEA.

6090	S. aurulenta.	Ancey.	Kona, Hawaii.
6091	caduca.	Mighels.	Waianae, Oahu.
9092	canella.	Gould.	Lahaina, Maui.
6093	crassa.	Ancey.	Ulupalakua, Maui.
6094	delicata.	"	" "

6095	patula.	Mighels.	Palolo, Oahu.
6096	rotundata.	Gould.	Molokaï.
6097	vesicalis.	"	Kona, Hawaii.

## TORNATELLINA.

6098	T. simplex.	Garret.	" "
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## BULIMUS.

6099	B. junceus.	Gould.	Maui.
6100	pyrgiscus.	Pfeiffer.	Hilo, Hawaii.

## CARELIA.

6101	adusta ?	Gould.	Haena, Kauai.
6102	dolei.	Ancey.	" "
6103	sinclairi.	"	Niihau.
6104	fuliginea.	Pfeiffer.	Kauai.

By exchange from the collection of A. F. Judd, Jr., the following species:—

6105	Achatinella albolabris.		Kapalama, Oahu.
6106	" decora.		Nuuanu, Oahu.
6107	" diversa.		Waialae, "
6108	" juddii ?	Baldwin.	Halawa, Oahu.
6109	" konahua-		
	nuiensis.		Konahuanui, Oahu.
6110	Achatinella lorata ?		Aiea, "
6111	" " var.		
	nobilis.	Pfeiffer.	Nuuanu, "
6112	Achatinella turgida.		Waiau, Ewa, "
6113	" virens.		Moanalua, "
6114	"		Waialae, "
6115	"		" "
6116	"		Waialua, "
6117	"		Konahuanui, "
6118	"		" "
6119	"		Nuuanu, "
6120	"		Manoa, "
6121	"		Aiea, "
6122	"		Waiau, Ewa, "

*Fresh-water Shells.*

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MELANIA.

6123	M. contigua.	Pease.	Hanalei, Kauai.
6124	kauaiensis.	"	Kealia, "
6125	mauiensis.	Lea.	Maui.

## NERITINA.

6126	N. granosa. (Hawaii- an wi.)	Sowerby.	Hanapepe, Kauai.
6127	cariosa.	Gray.	Lahaina, Maui.
6128	vespertina.	Nuttall.	Kapaa, Kauai.

## LIMNAEA.

6129	L. ambigua.	Pease.	Kapaa, Kauai.
6130	compacta.	"	Lahaina, Maui.
6131	oahuensis.	Souleyet.	Oahu.
6132	rubella.	Lea.	Hanapepe, Kauai.

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*Marine Shells, Hawaiian: Baldwin collection.*

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CYPRAEA.

6133	C. annulus.	Linnæus.
6134	arabica.	"
6135	argus.	"
6136	caput-anguis.	Philippi.
6137	caput-serpentis.	Linnæus.
6138	carneola.	"
6139	erosa.	"
6140	errones.	"
6141	helvola.	"
6142	histrio.	Gmelin.
6143	intermedia.	Gray.
6144	isabella.	Linnæus.
6145	lynx.	"
6146	madagascarensis.	Gmelin.

6147	mauritiana.	Linnæus.
6148	microdon.	Gray.
6149	moneta.	Linnæus.
6150	poraria.	"
6151	scurra.	Chemnitz.
6152	sulcidentata.	Gray.
6153	talpa.	Linnæus.
6154	tigris.	"
6155	vitellus.	"

## CONUS.

6156	C. abbreviatus.	Nuttall.
6157	aulicus.	Linnæus.
6158	circe.	Chemnitz.
6159	hebraeus.	Linnæus.
6160	imperialis.	"
6162	lividus.	Bruguère.
6163	pulicarius.	"
6164	quercinus.	"
6165	striatus.	Linnæus.
6166	sumatrensis.	Bruguère.
6167	sp.	
6168	sp.	
6169	sp.	
6170	sp.	
6171	sp.	

## TEREBRA.

6172	T. crenulata.	Linnæus.
6193	dimidiata.	"
6174	maculata.	"
6175	oculata.	Lamarck.
6176	strigillata.	Linnæus.
6177	subulata.	"
6178	sp.	

## CERITHIUM.

6179	C. morus.	Lamarck.
6180	obeliscus.	Bruguère.
6181	procerum,	Kièner,

## MITRA.

- 6182 M. episcopalis. Linnæus.  
 6183 pontificalis. “

## CASSIS.

- 6184 C. erinacea. Linnæus.  
 6185 vibex. “

## NERITA.

- 6186 N. polita (Hawaiian *pipipi*). “  
 6187 picea. Recluz.  
 6188 sp.  
 6189 sp.  
 6190 sp.

## RANELLA.

- 6191 R. granifera. Lamarck.  
 6192 pusilla. Broderip.

## NATICA.

- 6193 N. mamilla. Linnæus.  
 6194 melanostoma. Gmelin.

## COLUMBELLA.

- 6195 C. mendicaria?  
 6196 sp.  
 6197 sp.

## DOLIUM.

- 6198 D. perdix. Lamarck.

## STROMBUS.

- 6199 S. maculatus. Nuttall.  
 6200 gigas? Linnæus.  
 6201 sp.

## NASSA.

- 6202 N. horrida? Dunker.  
 6203 sp.

## POLYTROPA.

- 6204 P. tristis. Dunker.

## PTEROCERA.

- |      |                     |          |
|------|---------------------|----------|
| 6205 | <i>P. aurantia.</i> | Lamarck. |
| 6206 | <i>sp.</i>          |          |

## LITTORINA.

- |      |                    |          |
|------|--------------------|----------|
| 6207 | <i>L. scabra.</i>  | Linnæus. |
| 6208 | <i>mauritiana.</i> | Lamarck. |

## RICINULA.

- |      |                        |   |
|------|------------------------|---|
| 6209 | <i>R. arachnoidea.</i> | " |
| 6210 | <i>sp.</i>             |   |

## PURPURA.

- |      |                   |        |
|------|-------------------|--------|
| 6211 | <i>P. aperta.</i> | Blume. |
|------|-------------------|--------|

## TURBO.

- |      |                         |          |
|------|-------------------------|----------|
| 6212 | <i>T. argyrostomus.</i> | Linnæus. |
|------|-------------------------|----------|

## MALEA.

- |      |                 |          |
|------|-----------------|----------|
| 6213 | <i>M. poma.</i> | Linnæus. |
|------|-----------------|----------|

## LUNATIA.

- |      |                  |      |
|------|------------------|------|
| 6214 | <i>L. heros.</i> | Say. |
|------|------------------|------|

## HARPA.

- |      |                       |          |
|------|-----------------------|----------|
| 6215 | <i>H. ventricosa.</i> | Lamarck. |
|------|-----------------------|----------|

## APLUSTRUM.

- |      |                          |          |
|------|--------------------------|----------|
| 6216 | <i>A. thalassiarchi.</i> | Martius. |
|------|--------------------------|----------|

## JOPAS.

- |      |                   |          |
|------|-------------------|----------|
| 6217 | <i>J. sertum.</i> | Lamarck. |
|------|-------------------|----------|

## SCALARIA.

- |      |                      |        |
|------|----------------------|--------|
| 6218 | <i>S. decussata.</i> | Pease. |
|------|----------------------|--------|

## PISANIA.

- |      |                        |   |
|------|------------------------|---|
| 6219 | <i>P. angicostata.</i> | " |
|------|------------------------|---|

## TRITON.

- |      |                    |          |
|------|--------------------|----------|
| 6220 | <i>T. pileare.</i> | Linnæus. |
| 6221 | <i>sp.</i>         |          |

## ENGINA.

6222 sp.

6223 sp.

## OLIVA.

6224 *O. episcopalis*.

Linnæus.

6225 sp.

## CONOHELIX.

6226 *C. olivaeformis*.6227 *virgo*.

Swainson.

## POLYDONTA.

6228 sp.

## MELAMPUS.

6229 *M. luteus*.

Quoy.

6230 *zonatus*.

Montfort.

## JANTHIA.

6231 *J. fragilis*.

Linnæus.

6232

## PLANAXIS.

6232 *P. sulcatus*.

Born.

6233 *lineolatus*.

Gould.

## BULLA.

6234 *B. punctulata*.

A. D'Orbigny.

## TELLINA.

6235 *T. lingua-felis*.

Linnæus.

## PATELLA.

6236 *P. exarata*.

Nuttall.

6237 sp.

## MODIOLA.

6238 sp.

## PERNA.

6239 *P. incisa*,

Conrad.



## PECTEN.

6240 sp.

## PINNA.

6241 sp.

6242 sp.

The following marine shells are from the Government Museum and came to this collection either with no labels or with labels evidently inaccurate. The entire absence of any books of reference makes even the Generic names uncertain :

6243	Cypraea.	6268	Turbo.
6244	"	6269	"
6245	"	6270	"
6246	"	6271	"
6247	" cicercula.	6272	"
6248	" annulata.	6273	Conus textilis.
6249	" tabescens.	6274	" quercinus.
6250	" aurantium (Li-	6275	" stamineus.
	[liuokalani).	6276	" virgo.
6251	"	6277	" crocatus.
6252	"	6278	" porto-ricanus.
6253	"	6279	"
6254	"	6280	"
6255	"	6281	Triton anus.
6256	"	6282	" ranelloides.
6257	"	6283	" scaber.
6258	"	6284	" sarcostoma.
6259	"	6285	"
6260	"	6286	Murex tenuispina, Lam.
6261	Turbo.	6287	"
6262	"	6288	Dolium perdix, Lam.
6263	"	6289	"
6264	"	6290	Calyptra.
6265	" variabilis.	6291	Haliotis.
6266	"	6292	"
6267	"	6293	Melo indicus.

6294	<i>Oliva porphyria</i> .	6325	
6295	"	6326	
6296	<i>Ovula ovum</i> .	6327	<i>Cardium</i> .
6297	<i>Pterocera</i> .	6328	" (Liliuokalani).
6298	<i>Cassis</i> .	6329	"
6299	"	6330	<i>Tridacna gigas</i> .
6300	<i>Strombus gigas</i> .	6331	" <i>elongata</i> .
6301	"	6332	"
6302	<i>Mitra fulva</i> .	6333	<i>Hippopus maculatus</i> .
6303	" <i>acuminata</i> .	6334	"
6304	<i>Terebra aciculina</i> , Lam.	6335	<i>Spondylus aurantius</i> .
6305	" <i>interlineata</i> , Desh.	6336	"
6306	<i>Vertagus articulata</i> ,	6337	"
	[A. & R.	6338	"
6307	<i>Argonauta argo</i> .	6339	<i>Ostraea carinata</i> .
6308	<i>Nautilus pompilius</i> .	6340	" "
6309	<i>Amuseum caurium</i> (Al-	6341	<i>Malleus vulgaris</i> .
	[batros. Puget Sd.)	6342	<i>Avicula margaritifera</i> .
6310	<i>Pecten pallium</i> .	6343	" <i>heteroptera</i> .
6311	" <i>alba</i> .	6344	<i>Meleagrina</i> .
6312	"	6345	<i>Pinna nigrina</i> .
6313	"	6346	"
6314	<i>Lithodomus</i> .	6347	"
6315	<i>Tellina</i> .	6348	
6316	<i>Perna</i> .	6349	
6317		6350	
6318		6351	
6319		6352	
6320		6353	
6321		6354	
6322		6355	
6323		6356	
6324			

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*Corals and Corallines.*

2700	<i>Madrepora rosaria</i> , Dana.	Fiji.	HG.	10, KR
2701	"	"	HG.	10, KR
2702	" <i>spicifera</i> ,	"	HG.	10, KR
2703	" <i>cytherea</i> ,	" Tahiti.	HG.	10, KR

2704	<i>Tubipora syringa</i> ,	"	Fiji.	HG.	12, KR
2705	<i>Meandrina tenuis</i> ,	"	"	HG.	12, KR
2706	<i>Pocillopora caespitosa</i> , Dana.	Hilo, Hawaii.	Chas.		
			[Furneaux.		11, KR
2707	"	"	"	Waikiki, Oahu.	
			[W.T.B.		11, KR
2108	"	<i>aspera</i> , var. <i>lata</i> , Verrill.	Waikiki, Oahu.		
			[W.T.B.		11, KR
2709	"	<i>ligulata</i> , Dana.	Waikiki, Oahu.		
			[W.T.B.		11, KR
2710	"	<i>nobilis</i> , Ver.	Waikiki, Oahu.	W.T.B.	11, KR
2711	"	fragment.			11, KR
2712	Used by Hawaiians as medicine.				11, KR
2713	"	"	"		11, KR
2714	<i>Fungia dentigera</i> , Leuckart.	Hilo, Hawaii.			11, KR
2715	"	"			11, KR
2716	"				11, KR
2717	"				11, KR
2718	<i>Halomitra pileus</i> .	Lamarck.	Micronesia.		12, KR
2719	"	"			12, KR
2720	"	"			12, KR
2721	"	"	very large.	Diam. 15½ inches,	
			[height 11 inches.		12, KR
2722	<i>Pocillopora</i> .	Waikiki, Oahu.	W.T.B.		11, KR
2723	<i>Madrepora</i> sp.	HG.			12, KR
2724	"	HG.			12, KR
2725	"	HG.			12, KR
2726	"				12, KR
2727	<i>Pavonia, decussata</i> .	Dana.	Fiji.	HG.	12, KR
2728	sp.	North Farallon, Cal.	Albatros, [March.		12, KR
2729					12, KR
2730	Spongy coral.	Koolau, Oahu.	Liliuokalani.		11, KR
2731	Taken from the bottom of the "Ninito."				JSE. 11, KR
2732	Nullipore.	Large mass 15x20 in.	HG.		12, KR
2733	<i>Dendrophyllia nigrescens</i> .	Dana.	Fiji.	HG.	*12, KR
2734	<i>Pavonia?</i>	Large laminate mass.	HG.		10, KR
2735	<i>Disticopora violacea</i> .	Lamarck.	Micronesia.		12, KR
2736	"	"	"		12, KR
2737	"	<i>gracilis</i>	Dana.	"	12, KR

2738	Gorgonia.	*11, KR
2739	"	*11, KR
2740	" HG.	*11, KR
2741	Antipathes? Albatros, 3353. 7° 06' N., 80° 34' W.	12, KR
2742	" "	12, KR
2743	Sponge from Mortlock Ids. JSE.	11, KR
2744	Verillia blakei. Oregon Coast. Albatros.	37, MR

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*Vegetable Productions.*

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5315	Olona bark. <i>Touchardia latifolia</i> . Maui. G. P.	[Wilder. 35, MR
5316	" fibre prepared for spinning.	35, MR
5317	" " " " JSE.	35, MR
5318	Pulu. <i>Cibotium menziesii</i> . Twenty-five years ago the gathering of this silky fibre was an important industry on Hawaii, and many hundred tons were exported. It was used to stuff pillows, beds, etc., but was not sufficiently durable, and the harvest has long ceased.	35, MR
5319	Cane leaves for hat-making.	35, MR
5320	Bambu for making hats, fans, etc. This is from the long-jointed native bambu which sometimes yields several layers.	35, MR
5321	Hala leaves prepared for manufacturing. <i>Pandanus odoratissimus</i> .	35, MR
5322	Ahinahina. Silver-sword. <i>Argyroxiphium sandwicense</i> . Maui. Dr. C. M. Hyde.	35, MR
5323	Mokihana capsules. <i>Pelea anisata</i> . Hanalei, Kauai.	35, MR
5324	Koko. To show fibre of niu. <i>Cocos nucifera</i> .	35, MR
5325	Prepared leaves of the dwarf fala of Samoa. <i>Pandanus sp.</i> HG.	35, MR
5326	Calabash or Ipu pueo. HG.	35, MR
5327	" "	35, MR
5328	Epidermis of the leaves of Painiu. <i>Astelia vera-troides</i> . Kilauea.	35, MR

5329	Beans of the Kakalaioa.	<i>Caesalpinia bonducella.</i>	35, MR
5330	Prepared tobacco from Micronesia.		35, MR
5331	Vegetable ivory.	<i>Phytelephas. sp. C.</i>	35, MR
5332-3	" " "	"	35, MR
5334	Cycas fruit.		35, MR
5335-39	Coconuts of several varieties.		35, MR

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*Hawaiian Woods in the Museum.*

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6400	Wiliwili,	<i>Erythrina monosperma.</i>
6401	Olomea,	<i>Perrottetia sandwicensis.</i>
6402	Hau,	<i>Paritium tiliaceum.</i>
6403	Milo,	<i>Thespesia populnea.</i>
6404	Mao,	<i>Gossypium tomentosum.</i>
6405	Kokio,	" <i>drynarioides.</i>
6406	Kawau,	<i>Byronia sandwicensis.</i>
6407	Aalii,	<i>Dodonaea viscosa.</i>
6408	Olapa,	<i>Cheirodendron gaudichaudii.</i>
6409	Koaia,	<i>Acacia koaia.</i>
6410	Kukui,	<i>Aleurites moluccana.</i>
6411	Noni,	<i>Morinda citrifolia.</i>
6412	Kopiko kea,	<i>Straussia sp.</i>
6413	Kopiko ula,	" <i>sp.</i>
6414	Ulei,	<i>Osteomeles anthyllidifolia.</i>
6415	Ohia ai,	<i>Eugenia malaccensis.</i>
6416	Ohia lehua,	<i>Metrosideros polymorpha.</i>
6417	Kanawao,	<i>Broussaisia arguta.</i>
6418	Akia,	<i>Wikstroemia foetida.</i>
6419	Ahakea.	<i>Bobea sp.</i>
6420	Wauke,	<i>Broussonetia papyrifera.</i>
6421	Na'u,	<i>Gardenia brighamii.</i>
6422	Lama,	<i>Maba sandwicensis.</i>
6423	Mamane,	<i>Edwardsia chrysophylla.</i>
6424	Iliahi,	<i>Santalum freycinetianum.</i>
6425	Holei,	<i>Ochrosia sandwicensis.</i>

6426 Alani,  
 6427 Alahee,  
 6428 Aiea,  
 6429 Ohe,  
 6430 Kului,  
 6431 Manono,  
 6432 Heau,  
 6433 Kolea,  
 6434 Olopua or Pua,  
 6435 Hala,  
 6436 Naio,  
 6437 Hauhele,  
 6438 Hoawa,  
 6439 Hao,  
 6440 O'a,  
 6441 Puakawau,  
 6442 Lauae wahine,  
 6443 Hamepaihi,  
 6444 Mahu,  
 6445 Naioio,  
 6446 Aaahi,  
 6447 Lauae kane,  
 6448 Oha,  
 6449 Mahoe,  
 6450 Kamani,  
 6451 Ohai,  
 6452 Akoko,  
 6453 Niu,  
 6454 Ulu,  
 6455 Nenelaau,  
 6456 Nioi,  
 6457 Manele,  
 6458  
 6459  
 6460  
 6461  
 6462  
 6465 Tamarind.

*Pelea sandwicensis.*  
*Plectronia odorata.*  
*Nothocestrum breviflorum.*  
*Reynoldsia sandwicensis.*  
*Ptilotus sandwicensis.*  
*Gouldia coriacea.*  
*Exocarpus brachystachys.*  
*Myrsine lessertiana.*  
*Olea sandwicensis.*  
*Pandanus odoratissimus.*  
*Myoporum sandwicensis.*  
*Hibiscus arnottianus.*  
*Pittosporum glabrum.*  
*Rauwolfia sandwicensis.*

*Cheirodendron gaudichaudii.*

*Calophyllum inophyllum.*  
*Sesbania grandiflora.*  
*Euphorbia lorifolia.*  
*Cocos nucifera.*  
*Artocarpus incisa.*  
*Rhus semialata.*

*Tamarindus indicus.* Mrs. H. A.  
 P. Carter.

6466	Camphor wood,	<i>Cinnamomum camphora</i> . Mrs. C. Afong.
6467	Algaroba,	<i>Prosopis dulcis</i> .
6468	Pride-of-India,	<i>Melia azederach</i> .
6469	Mango,	<i>Mangifera indica</i> .

*New Zealand Woods.*

6475	Kauri,	<i>Agathis australis</i> .
6476	“ mottled,	“ “
6477	“ waved,	“ “
6478	Totara,	<i>Podocarpus totara</i> .
6479	Matai,	“ <i>spicata</i> .
6480	Miro—Tomiro,	“ <i>ferruginea</i> .
6481	Mahikatea,	“ <i>excelsa</i> .
6482	Rata,	<i>Metrosideros robusta</i> .
6483	Pohutukawa = Hutu- [kawa,	“ <i>tomentosa</i> .
6484	Manukauriki = Kanuka,	<i>Leptospermum ericoides</i> .
6485	Rewarewa,	<i>Knightia excelsa</i> .
6486	Akeake,	<i>Olearia avicennaefolia</i> .
6487	Titoki = Titongi,	<i>Alectryon excelsum</i> .
6488	Hututawhai = Tawhai- [raunui,	<i>Fagus fusca</i> .
6489	Wharangepiro,	<i>Melicope simplex</i> .
6490	Puriri = Kauere,	<i>Vitex littoralis</i> .
6491	Rimu,	<i>Dacrydium cupressinum</i> .
6492	Hinau = Whinau,	<i>Elaeocarpus dentatus</i> .
6493	Tanekaha [Celery-topped [pine],	<i>Phyllocladus trichomanoides</i> .
6494	Mangeao,	<i>Litsea calicaris</i> .
6495	Kowhai,	<i>Sophora tetraptera</i> .
6496	Maire,	<i>Olea sp.</i>
6497	Ramarama,	<i>Myrtus bullata</i> .
6498	Miko = Nikau,	<i>Areca sapida</i> .
6499	Ekotote. “Ponga.”	<i>Cyathea dealbata</i> .

*California Woods.*


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6500	Madroño,	<i>Arbutus menziesii.</i>
6501	Nutmeg,	<i>Torreya californica.</i>
6502	Lilac,	<i>Ceanothus sp.</i>
6503	Laurel,	<i>Umbellularia californica.</i>
6504	Buckeye,	<i>Æsculus californica.</i>
6505	Yew,	<i>Taxus brevifolia.</i>
6506	Sycamore,	
6507	"	
6508	Live oak,	<i>Quercus agrifolia.</i>
6509	Yellow oak,	" <i>densiflora.</i>

The California specimens are small and their authenticity cannot in all cases be vouched for. HG.

*Japanese Woods.*


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Chamaecyparis obtusa.	Amelanchier canadensis.
" pisifera.	Distylium racemosum.
Thujopsis dolabrata.	Acanthopanax divaricatum.
" laetevirens.	" innovans.
Cryptomeria japonica.	Kalopanax ricinifolia.
Pinus thunbergii.	Cornus brachypoda.
" densiflora.	" kousa.
" koraiensis.	Styrax japonica.
" parviflora.	" obassia.
Abies firma.	Symplocos panniculata.
" microsperma.	Diospyros lotus.
" tsuga.	Andromeda ovalifolia.
" alcokiana.	" japonica.
" veitchii.	Clethra parvinervis.
" polita.	Ilex pedunculosa.
Taxus cuspidata.	" crenata.
Torreya nucifera.	" integra.
Sciadopytis verticillata.	Olea aquifolium.



*Juniperus rigida*.  
     "    *chinensis*.  
*Larix leptolepis*.  
*Podocarpus macrophylla*.  
*Podocarpus nageia*.  
*Ginkgo biloba*.  
*Cercidiphyllum japonicum*.  
*Magnolia hypoleuca*.  
*Trochodendron aralioides*.  
*Idesia polycarpa*.  
*Sterculia platanifolia*.  
*Tilia cordata*.  
*Camellia japonica*.  
*Stuartia* sp.  
*Ternstroemia japonica*.  
*Acer palmatum*.  
     "    *crataegifolium*.  
     "    sp.  
     "    sp.  
*Aesculus turbinata*.  
*Sapindus mukurosi*.  
*Melia japonica*.  
*Cedrela chinensis*.  
*Zanthoxylon ailanthoides*.  
*Evodia glauca*.  
*Picrasma ailanthoides*.  
*Evonymus sieboldianus*.  
*Hovenia dulcis*.  
*Rhus vernicifera*.  
     "    *succedanea*.  
     "    *semialata*.  
*Sophora japonica*.  
     "    sp.  
*Gleditschia japonica*.  
*Albizia julibrissin*.  
*Prunus mume*.  
     "    *pseudocerasus*.  
         *siori*.  
*Photinia villosa*.

*Fraxinus pubinervis*.  
     "    sp.  
*Catalpa kaempferi*.  
*Paulownia imperialis*.  
*Cinnamomum camphora*.  
     "    *pedunculatum*.  
*Litsaea glauca*.  
*Actinodaphne lancifolia*.  
*Elaeococca cordata*.  
*Buxus sempervirens*.  
*Rottlera japonica*.  
*Zelkova keaki*.  
*Ulmus campestris*.  
*Morus alba*.  
*Aphananthe aspera*.  
*Celtis sinensis*.  
*Quercus glauca*.  
     "    *acuta*.  
     "    *phyllyroides*.  
     "    *gibba*.  
     "    *glabra*.  
     "    *dentata*.  
     "    *serrata*.  
     "    *crispula*.  
     "    sp.  
     "    *cuspidata*.  
*Castanea vulgaris*.  
*Alnus maritima*.  
     "    *firma*.  
     "    sp.  
     "    sp.  
*Betula alba*.  
*Carpinus* sp.  
     "    sp.  
*Fagus sylvatica*.  
*Salix japonica*.  
     "    *buergeriana*.  
*Populus sieboldii*.  
*Juglans sieboldiana*.

*Pyrus sambucifolia.*

" *communis.*

" *toringo.*

" *aria.*

*Pterocarya sorbifolia.*

*Platycarya strobilacea.*

These specimens of Japanese woods are boxed, numbered in Japanese and bear the general number 6474. HG.

### Hawaiian Ferns.

#### MARATTIA.

6510 *M. douglasii, Baker.*

#### SCHIZAEA.

6511 *S. robusta, Baker.*

#### GLEICHENIA.

6512 *G. longissima, Blume.*

6513 *G. dichotoma, Hooker.*

6514 *G. hawaiiensis, Hooker.*

#### CIBOTIUM.

6515 *C. menziesii, Hooker.*

6516 *C. chamissoi, Kaulfuss.*

6517 *C. glaucum, Hooker and  
[Arnott.]*

#### ACROSTICHUM.

6518 *A. squamosum, Swartz.*

6519 *A. micradenium, Fée.*

6520 *A. conforme, Swartz.*

6521 *A. wawrae, Luerssen.\**

6522 *A. reticulatum, Kaul-  
[fuss.]*

6523 *A. gorgonium, Kaulfuss*

#### Gymnogramme.

6524 *G. javanica, Blume.*

#### VITTARIA.

6525 *V. elongata, Swartz.*

#### POLYPODIUM.

6526 *P. pseudogrammitis,  
[Gaudichaud.]*

6527 *P. Hookeri, Bracken-  
[ridge.]*

6528 *P. samoense, Baker.\**

6529 *P. lineare, Thunberg.*

6530 *P. spectrum, Kaulfuss.*

6531 *P. serrulatum, Mettenius\**

6532 *P. haalilioanum, Brack-  
[enridge.\*]*

6533 *P. sarmentosum.*

6534 *P. adenophorus, Hooker  
[and Arnott.\*]*

6535 *P. peilucidum, Kaulfuss.*

6536 *P. hymenophylloides,  
[Kaulfuss.]*

6537 *P. abietinum, Eaton.\**

6538 *P. tamariscinum, Kaul-  
[fuss.]*

6539 *P. tripinnatifidum, Mann*

#### PHEGopteris.

6540 *P. polycarpa, Hillebrand*

6541 *P. keraudreniana, Mann.*

6542 *P. crinalis, Mann.*

6543 *P. hillebrandii, Hille-  
[brand.]*

\* Those marked with an asterisk are not yet in the herbarium.

- 6544 *P. spinulosa*, *Hillebrand*.  
[brand.]
- 6545 *P. punctata*, *Hillebrand*.  
[brand.]
- 6546 *P. unidentata*, *Mann*.
- 6547 *P. sandwicensis*, *Mann*.
- ASPIDIUM.
- 6548 *A. apiifolium*, *Schkuhr*.
- 6549 *A. boydiae*, *Eaton*.
- 6550 *A. caryotideum*, *Wallich*.  
[lich.]
- 6551 *A. unitum*, *Swartz*.
- 6552 *A. terminans*, *Wallich*.
- 6553 *A. truncatum*, *Gaudichaud*.  
[chaud.]
- 6554 *A. globuliferum*, *Mann*.
- 6555 *A. filix-mas*, *Swartz*.
- 6556 *A. haleakalaense*, *Mann*.
- 6557 *A. aculeatum*, *Swartz*.
- 6558 *A. rubiginosum*, *Mann*.
- 6559 *A. latifrons*, *Brackenridge*.  
[ridge.\*]
- 6560 *A. squamigerum*, *Mann*.
- 6561 *A. hawaiiense*, *Hillebrand*.  
[brand.\*]
- 6562 *A. aristatum*, *Swartz*.\*
- 6563 *A. glabrum*, *Mettenius*.
- 6564 *A. cyatheoides*, *Kaulfuss*.
- NEPHROLEPIS.
- 6565 *N. exaltata*, *Schott*.
- CYSTOPTERIS.
- 6567 *C. douglasii*, *Hooker*.
- SADLERIA.
- 6568 *S. souleytiana*, *Hillebrand*.  
[brand.]
- 6569 *S. cyatheoides*, *Kaulfuss*.
- 6570 *S. pallida*, *Hooker and Arnott*.  
[Arnott.]
- 6571 *S. squarrosa*, *Mann*.
- DOODIA.
- 6572 *D. media*, *R. Brown*.
- 6573 *D. kunthiana*, *Gaudichaud*.  
[chaud.\*]
- ASPLENIUM.
- 6574 *A. nidus*, *Linnaeus*.
- 6575 *A. trichomanes*, *Linnaeus*.  
[naeus.]
- 6576 *A. monanthemum*.  
[Linnaeus.]
- 6577 *A. normale*, *Don*.
- 6578 *A. fragile*, *Presl*.\*
- 6579 *A. erectum*, *Bory*.
- 6580 *A. resectum*, *Smith*.
- 6581 *A. contiguum*, *Kaulfuss*.
- 6582 *A. caudatum*, *Forster*.
- 6583 *A. nitidulum*, *Hillebrand*.  
[brand.]
- 6584 *A. knudsenii*, *Hillebrand*.  
[brand.\*]
- 6585 *A. pseudofalcatum*, *Hillebrand*.  
[lebrand.]
- 6586 *A. mannii*, *Hillebrand*.
- 6587 *A. kaulfussii*, *Schlechtendahl*.  
[tendahl.]
- 6588 *A. enatum*, *Brackenridge*.  
[ridge.]
- 6589 *A. horridum*, *Kaulfuss*.\*
- 6590 *A. lobulatum*, *Mettenius*.\*
- 6591 *A. spathulinum*, *Hooker*.\*
- 6592 *A. varians*, *Hooker and Greville*.  
[Greville.]
- 6593 *A. lydgatei*, *Hillebrand*.\*
- 6594 *A. institutum*, *Brackenridge*.  
[enridge.]
- 6595 *A. bipinnatum*, *Hillebrand*.  
[brand.]
- 6596 *A. furcatum*, *Thunberg*.
- 6597 *A. adiantum-nigrum*,  
[Linnaeus.]

- 6598 *A. acuminatum*, *Hooker*  
[and *Arnott*.]  
6599 *A. polyphyllum*, *Presl.\**  
6600 *A. patens*, *Kaulfuss.\**  
6601 *A. sphenotomum*, *Hille-*  
[*brand*.]  
6602 *A. dissectum*, *Bracken-*  
[*ridge*.]  
6603 *A. marginale*, *Hillebrand*  
6604 *A. fenzlianum*, *Luers-*  
[*sen.\**]  
6605 *A. arboreum*, *Willdenow*.  
6606 *A. sandwicense*, *Hille-*  
[*brand.\**]  
6607 *A. arnottii*, *Baker*.  
6608 *A. sandwichianum*, *Met-*  
[*tenius*.]  
6609 *A. deparoides*, *Bracken-*  
[*ridge*.]  
6610 *A. aspidioides*, *Schlecht*.  
[*endahl*.]  
6611 *A. baldwini*, *Hillebrand\**  
DEPARIA.  
6612 *D. prolifera*, *Hooker*.  
LINDSAYA.  
6613 *L. erecta*, *Hooker.\**  
6614 *L. pumila*, "  
6615 *L. centifolia*, *Hillebrand\**  
6616 *L. falcata*, *Hooker*.  
6617 *L. laciniata*, *Hillebrand\**  
6618 *L. alexandri*, "  
6619 *L. knudsenii*, "  
6620 *L. mannii*, "  
ODONTOLOMA.  
6621 *O. repens*, *Desvaux*.  
MICROLEPIA.  
6622 *M. strigosa*, *Presl*.  
6623 *M. hirta*, *Kaulfuss.\**  
6624 *M. jamaicensis*, *Fée*.  
6625 *M. tenuifolia*, *Mettenius*.  
PTERIS.  
6626 *P. decipiens*, *Hooker*.  
6627 *P. decora*, "  
6628 *P. cretica*, *Linnæus*.  
6629 *P. irregularis*, *Kaulfuss*.  
6630 *P. regularis*, *E. Bailey.\**  
6631 *P. excelsa*, *Gaudichaud*.  
6632 *P. aquilina*, *Linnæus*.  
CHEILANTHES [*Schizosteg*e, *Hlb.*]  
6633 *C. lidgatei*, *W.T.B.*  
PELLAEA.  
6634 *P. ternifolia*, *Fée*.  
ADIANTUM.  
6635 *A. capillus-veneris*, *Linnæus*.  
TRICHOMANES.  
6636 *T. parvulum*, *Poirot*.  
6637 *T. draytonianum*, *Brack-*  
[*enridge.\**]  
6638 *T. meifolium*, *Bory*.  
6639 *T. davallioides*, *Gaudi-*  
[*chaud*.]  
6640 *T. cryptotheca*, *Hillebr'd*  
HYMENOPHYLLUM.  
6641 *H. baldwini*, *Eaton.\**  
6642 *H. recurvum*, *Gaudi-*  
[*chaud*.]  
6643 *H. lanceolatum*, *Hooker*  
[and *Arnott*.]  
6644 *H. obtusum*, *Hooker and*  
[*Arnott*.]  
OPHIOGLOSSUM.  
6645 *O. pendulum*, *Linnæus*.  
6646 *O. nudicaule*, " fil.  
6647 *O. vulgatum*, " \*  
BOTRYCHIUM.  
6648 *B. subbifoliatum*, *Brack-*  
[*enridge*.]

*New Zealand Ferns.*

Generally from the collection of Eric Craig of Auckland. With these are catalogued a small collection made by Mr. Edward Bailey, of Micronesian ferns and which are distinguished from the Maori ferns by a †. The botanical names of these last are given as they come into the Museum Herbarium, as there has been no time for examination and comparison.

## GLEICHENIA.

- 6649 *G. circinata*, Swartz.  
 6650 *G. dicarpa*, Brown.  
 6651 *G. alpina*, "  
 6652 *G. longissima*, Blume.  
 6653 *G. glauca*, Hooker.  
 6654 *G. flabellata*, Brown.  
 6655 *G. cunninghami*, Hew-

[ard.

## CYATHEA.

- 6656 *C. medullaris*, Swartz.  
 6657 *C. cunninghami*, Hooker  
 6658 *C. dealbata*, Swartz.  
 6659 *C. milnei*, Hooker.  
 6660 *C. nigricans*, Mettenius†

## HEMITELIA.

- 6661 *H. smithii*, Hooker.

## ALSOPHILA.

- 6662 *A. colensoi*, Hooker.

## DICKSONIA.

- 6663 *D. antarctica*, Labillar-  
 [dière.  
 6664 *D. fibrosa*, Colenso.  
 6665 *D. lanata*, "  
 6666 *D. squarrosa*, Swartz.

## LOXOMA.

- 6667 *L. cunninghami*, Brown

## HYMENOPHYLLUM.

- 6668 *H. rarum*, R. Brown.  
 6669 *H. polyanthos*, Swartz.  
 6670 *H. javanicum*, Sprengel.  
 6671 *H. demissum*, Swartz.  
 6672 *H. flabellatum*, Labillar-  
 [dière.  
 6673 *H. scabrum*, A. Richard.  
 6674 *H. dilatatum*, Swartz,  
 6675 *H. pulcherrimum*, Colenso  
 6676 *H. ciliatum*, Swartz.  
 6677 *H. aeruginosum*, Carmi-  
 [chael.  
 6678 *H. franklinianum*, Colenso  
 6679 *H. malingii*, Mettenius.  
 6680 *H. tunbridgensis*, Smith.  
 6681 *H. multifidum*, Swartz.  
 6682 *H. bivalve*, "

## TRICHOMANES.

- 6683 *T. reniforme*, Forster.  
 6684 *T. lyallii*, Hooker.  
 6685 *T. humile*, Forster.  
 6686 *T. kirkii*, Hooker.†  
 6687 *T. filicula*, Bory.†  
 6688 *T. javanicum*, Blume.†  
 6689 *T. venosum*, R. Brown.  
 6690 *T. colensoi*, Hooker.  
 6691 *T. rigidum*, Swartz.  
 6692 *T. strictum*, Hooker and  
 [Greville.

- 6693 *T. elongatum*, *Cunning-*  
[*ham.* 6721  
6694 *T. meifolium*, *Bory.* 6722  
6695 *T. maximum*, *Blume.*†
- DAVALLIA.  
6696 *D. novae-zelandiae*, 6723  
[*Colenso.* 6724  
6697 *D. fijiensis*, *Hooker.*† 6725  
6698 *D. pinnata*, *Cavanilles.*†  
6699 *D. solida*, *Swartz.*† 6726  
6700 *D. emersoni*, *Hooker* 6727  
[*and Greville.* 6728  
6701 *D. tenuifolia*, *Swartz.* 6729  
6702 *D. pectinata*, *Smith.*† 6730  
CYSTOPTERIS. 6731  
6703 *C. fragilis*, *Bernhard.* 6732  
LINDSAYA. 6733  
6704 *L. linearis*, *Swartz.* 6734  
6705 *L. trichomanoides*, 6735  
[*Dryander.* 6736  
6706 *L. lessonii*, *Bory.*  
6707 *L. microphylla*, *Swartz.*  
6708 *L. lanuginosa*, *Wallich.*† 6737  
6709 *L. viridis*, *Colenso.* 6738  
ADIANTUM. 6739  
6710 *A. diaphanum*, *Blume.* 6740  
6711 *A. cunninghami*, *Hooker* 6741  
6712 *A. affine*, *Willdenow.* 6742  
6713 *A. formosum*, *R. Brown* 6743  
6714 *A. fulvum*, *Raoul.* 6744  
6715 *A. aethiopicum*, *Lin-* 6745  
[*næus.* 6746  
6716 *A. capillus-veneris*, 6747  
[*Linnaeus.* 6748  
6717 *A. hispidulum*, *Swartz.* 6749  
HYPOLEPIS. 6750  
6718 *H. tenuifolia*, *Bernhard.*  
6719 *H. distans*, *Hooker.*  
6720 *H. millefolium.* “ 6751
- CHEILANTHES.  
*C. sieberi*, *Kunze.*  
*C. tenuifolia*, *Swartz.*
- PELLAEA.  
*P. ternifolia*, *Fée.*  
*P. rotundifolia*, *Hooker.*  
*P. falcata*, *Fée.*
- PTERIS  
*P. cretica*, *Linnaeus.*†  
*P. quadriaurita*, *Retz.*†  
*P. tremula*, *R. Brown.*  
*P. aquilina*, *Linnaeus.*  
*P. esculenta*, *Forster*  
*P. scaberula*, *Richard.*  
*P. macilenta*, *Cunning-*  
[*ham.*  
*P. comans*, *Forster.*  
*P. enlicheriana*, *Agardh.*  
*P. incisa*, *Thunberg.*  
*P. tripartita*, *Swartz.*†
- LOMARIA.  
*L. patersoni*, *Sprengel.*  
*L. discolor*, *Willdenow.*  
*L. vulcanica*, *Blumè.*  
*L. lanceolata*, *Sprengel.*  
*L. dura*, *Moore.*  
*L. alpina*, *Sprengel.*  
*L. banksii*, *Hooker, fil.*  
*L. pumila*, *Raoul.*  
*L. procera*, *Sprengel.*  
*L. filiformis*, *Cunning-*  
[*ham.*  
*L. nigra*, *Colenso.*  
*L. fluviatilis*, *Sprengel.*  
*L. membranacea*, *Colenso*  
*L. fraseri*, *Cunningham.*
- BLECHNUM.  
*B. orientale*, *Linnaeus.*†

- DOODIA.**  
 6752 *D. media*, *R. Brown.*  
 6753 *D. caudata*, " " " " " "
- ASPLENium.**  
 6754 *A. nidus*, *Linnaeus*.†  
 6755 *A. flabellifolium*, *Cavanilles*.  
 6756 *A. trichomanes*, *Linnaeus*.  
 6757 *A. contiguum*, *Kaulfuss*†  
 6758 *A. enatum*, *Brackenridge*.†  
 6759 *A. obtusatum*, *Forster*.  
 6760 *A. falcatum*, *Lamarck*.  
 6761 *A. hookerianum*, *Colenso*  
 6762 *A. mairii*, *Hooker, fil.*  
 6763 *A. laserpitifolium*,  
     [*Lamarck*.†  
 6764 *A. bulbiferum*, *Forster*.  
 6765 *A. laxum*, *R. Brown*.  
 6766 *A. colensoi*, *Hooker, fil.*  
 6767 *A. richardi*, " " "  
 6768 *A. filix-foemina*, *Bernhard*.†  
 6769 *A. umbrosum*, *J. Smith*.  
 6770 *A. flaccidum*, *Forster*.
- SCOLOPENDRIUM.**  
 6771 *S. durvillei*, *Bory*.
- ASPIDIUM.**  
 6772 *A. aculeatum*, *Swartz*.  
 6773 *A. vestitum*, " "  
 6774 *A. richardi*, *Hooker*.†  
 6775 *A. oculatum*, " "  
 6776 *A. cystostegia*, " "†  
 6777 *A. aristatum*, *Swartz*.  
 6778 *A. capense*, *Willdenow*.
- NEPHRODIUM.**  
 6779 *N. velutinum*, *Hooker, fil*  
 6780 *N. squamulosum*, *Hooker*
- 6781 *N. decompositum*,  
     [*R. Brown*.  
 6782 *N. glabellum*, *A. Cunningham*.  
 6783 *N. pachyphyllum*, *Baker*†  
 6784 *N. hispidum*, *Hooker*.  
 9785 *N. unitum*, *R. Brown*.  
 6786 *N. molle*, *Desvaux*.
- NEPHROLEPIS.**  
 6787 *N. acuta*, *Presl*.†  
 6788 *N. exaltata*, *Schott*.†
- POLYPODIUM.**  
 6789 *P. pennigerum*, *Forster*.†  
 6790 *P. australe*, *Mettenius*.  
 6791 *P. tenellum*, *Forster*.  
 6792 *P. accedens*, *Blume*.  
 6793 *P. cunninghami*, *Hooker*.  
 6794 *P. pustulatum*, *Forster*.  
 6795 *P. billardieri*, *R. Brown*.  
 6796 *P. rugulosum*, *Labiillardière*.  
 6797 *P. phymatodes*, *Linnaeus*†  
 6798 *P. grammitidis*, *R. Brown*  
 6799 *P. serpens*, *Forster*.
- NOTHOCLEAENA.**  
 6800 *N. distans*, *R. Brown*.
- MONOGRAMME.**  
 6801 *M. junghuhnii*, *Hooker*.†
- GYMNOGRAMME.**  
 6802 *G. pozoii*, *Kunze*.  
 6803 *G. leptophylla*, *Desvaux*.
- ANTROPHYUM.**  
 6804 *A. semicostatum*, *Blume*†
- VITTARIA.**  
 6805 *V. elongata*, *Swartz*.

ACROSTICHUM.		LYGODIUM.	
6806	A. conforme, <i>Swartz.</i>	6815	L. articulatum, <i>Richard.</i>
6807	A. flagelliferum, <i>Wal-</i> [ <i>lich.</i> †]	ANGIOPTERIS.	
6808	A. aureum, <i>Linnæus.</i> †	6816	A. evecta, <i>Hoffman.</i> †
TODEA.		MARATTIA.	
6809	T. barbara, <i>Moore.</i>	6817	M. fraxinea, <i>Smith.</i>
6810	T. hymenophylloides, [ <i>Richard and Lesson.</i>	OPHIOGLOSSUM.	
6811	T. superba, <i>Colenso.</i>	6818	O. vulgatum, <i>Linnæus.</i>
SCHIZAZEA.		6819	O. pendulum, " †
6812	S. fistulosa, <i>Labillardière</i>	BOTRYCHIUM.	
6813	S. bifida. <i>Swartz.</i>	6820	B. ternatum, <i>Swartz.</i>
6814	S. dichotoma. "		

The Museum Herbarium contains a collection of Hawaiian Mosses and Lichens, but they are not yet sufficiently identified to include in this catalogue.

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*A List of Hawaiian Names of Plants with their Botanical Equivalents.*

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Aahi (young sandal-wood),	<i>Santalum sp.</i>
Aaka = Naio = Alahii,	<i>Myoporum sandwicense.</i>
Aalii = Alii,	<i>Dodonaea viscosa.</i>
Aao (Banana),	<i>Musa sapientum.</i>
Aeae,	<i>Lycium sandwicense.</i>
Ahakea,	<i>Bobea sp.</i>
Ahihi,	
Ahinahina,	<i>Argyroxiphium sandwicense.</i>
Ahuawa (rush),	
Aiea,	<i>Nothocestrum sp.</i>
Ainakea (ribbon cane),	<i>Saccharum officinarum.</i>
Akaakaawa = Puamakanui,	<i>Hillebrandia sandwicensis.</i>
Akaakai,	<i>Scirpus lacustris.</i>
Akala (raspberry),	<i>Rubus hawaiiensis.</i>



Akea = Akia,  
 Akilolo (ribbon cane),  
 Akiohala,  
 Akoko-Koko,  
 Akole,  
 Akolea = Waimakanui,  
  
 Aku,  
 Alaalawainui,  
 Alahee,  
 Alahii = Naio = Aaka,  
 Alani (general for oranges),  
 “  
 Ale,  
 Aliipoe,  
 Amaumau = Ma'u,  
 Anapanapa = Kukuku  
 Anounou,  
 Anunu,  
 Ape,  
 Ape = Apii,  
 Apeape (light green cane),  
 Auhola = auhuhu,  
 Auhuhu,  
 Aulu = Kaulu,  
 Aupaka,  
 Awa,  
 Awapuhi = Opuhi (ginger),  
 Aweoweo,  
 “ (striped cane, white and  
 red),  
 Awikiwiki = Puakauhi,  
 Awiwi = Uiwi,  
 “  
 Ehuawa = Makaloa,  
 Ekaha = Hoe a Maui,  
 Ekaha akolea,  
 Emoloa = Kalamalo.  
 Enuhe = Unuhi = Uluhi,

*Wikstroemia foetida.*  
*Saccharum officinarum.*  
*Hibiscus youngianus.*  
*Euphorbia lorifolia.*  
*Phegopteris unidentata.*  
*P. keraudreniana* & *P. tamaris-*  
*cina.*  
*Cyanea tritomantha.*  
*Peperomia* sp.  
  
*Myoporum sandwicense.*  
*Citrus* sp.  
*Pelea* sp.  
*Plantago princeps.*  
*Canna indica.*  
*Sadleria cyatheoides.*  
*Colubrina asiatica.*  
*Lepidium oahuense.*  
*Sicyos* sp.  
*Gunnera petaloidea.*  
*Alocasia macrorrhiza.*  
*Saccharum officinarum.*  
*Tephrosia piscatoria,*  
 “ “  
*Sapindus oahuensis.*  
*Isodendrion pyrifolium.*  
*Piper methysticum.*  
*Zinziber zerumbet.*  
*Chenopodium sandwicheum.*  
  
*Saccharum officinarum.*  
*Canavalia galeata.*  
*Kadua cookiana.*  
*Erythraea sabaeoides.*  
*Cyperus laevigatus.*  
*Acrostichum* sp. *Asplenium nidus.*  
*Polypodium lineare.*  
*Eragrostis variabilis.*  
*Gleichenia* sp.

Haa,  
 Haha (banana),  
 Hahanui,  
 Hala,  
 Halapepe,  
 Hamepaihi (tree),  
 Hao,  
 Hapai (banana),  
 Hapuu,  
 Hapuulii = Heii,  
 Hau,  
 Hauhele = Kokio keokeo,  
 Heae,  
 Heau,  
 Heii = Hapuu lii,  
 Heuhiuhi = Uhiuhi,  
 Hialoa,  
 Hilahila = Iholena (banana),  
 Hinahina,  
 "  
 Hoawa,  
 Hoi (fragrant yam),  
 Hoio,  
 Honohino = Iliohu,  
 Honohono,  
 Honuaula (purple cane),  
 Holei,  
 Hou (striped cane, red and yellow)  
 Huahauelani (var. of sweet potato),  
 Huakukui = kukui,  
 Hue = Hueie = Huehue,  
 Huluhulu = Mao (cotton),  
 Hunakai,  
 Ieie = Ie,  
 Ihi,  
 Ihimakole,  
 Iholena (banana),  
 Ii (fern),

*Antidesma platyphyllum*.  
*Musa* sp.  
*Cyanea ferox*.  
*Pandanus odoratissimus*.  
*Dracaena aurea*.

*Rauwolfia sandwicensis*.  
*Musa* sp.  
*Cibotium chamissoi*.  
*Cibotium menziesii*.  
*Paritium tiliaceum*.  
*Hibiscus arnottianus*.  
*Zanthoxylum* sp.  
*Exocarpus brachystachys*.  
*Cibotium menziesii*.  
*Caesalpinia kauaiensis*.  
*Waltheria americana*.  
*Musa* sp.  
*Geranium tridens*.  
*Gnaphalium luteo-album*.  
*Pittosporum* sp.  
*Dioscorea sativa*.  
*Asplenium arnottii*.  
*Cleome sandwicensis*.  
*Haplostachys grayana*.  
*Saccharum officinarum*.  
*Ochrosia sandwicensis*.  
*Saccharum officinarum*.

*Ipomoea batatas*.  
*Aleurites moluccana*.  
*Cocculus ferrandianus*.  
*Gossypium tomentosum*.  
*Ipomoea acetosaefolia*.  
*Freycinetia arnottii*.  
*Portulacca oleracea*.  
 " *sclerocarpa*.  
*Musa* sp.

Ii = Milikani,  
 Īīahi = Lauala (sandal wood),  
 Iliau,  
 Iiie = Iileo = Iliheo,  
 Ilima,  
 Ilioħa = Iliohe,  
 Ilioħu = Honohino,  
 Inika,  
 Ipu (gourd),  
 Ipunui (large gourd)  
 Iwa.  
 Iwaiwa,  
 “  
 “  
 Iwaiwalaunui,  
 Iwaiwa o Kane,  
 Ka (a vine),  
 Kaa (a shrub),  
 Kaapeape,  
 Kaapea (on Hawaii),  
 Kaee = Kaiee,  
 Kahapuu = Hapuu,  
 Kaiwe = Nukuiwi,  
 Kaiii (edible plant),  
 Kaioe (a tree),  
 Kakonakona,  
 Kakalaioa,  
 Kamalo = Emoloa,  
 Kalamona = Uhiuhi = Kea,  
 Kalia,  
 Kaliali (medicinal plant),  
 Kalo,  
 Kalohe = Kaluha,  
 Kaluhaluha (all water grasses),  
 Kalukalu,  
 Kamakahala,  
 Kamanamana,  
 Kamanomano,

*Carica papaya.*  
*Santalum freycinetianum.*  
  
*Plumbago zeylanica.*  
*Sida sp.*  
*Erigeron canadensis.*  
*Cleome sandwicensis.*  
*Basella rubra.*  
*Lagenaria vulgaris.*  
*Curcubita maxima.*  
*Asplenium horridum.*  
*Asplenium adiantum-nigrum.*  
*Pteris decipiens.*  
*Adiantum capillus-veneris.*  
*Aspidium apifolium.*  
*Asplenium furcatum.*  
  
*Aspidium caryotideum.*  
*Ricinus communis.*  
*Mucuna gigantea.*  
*Cibotium chamissoi.*  
*Strongylodon lucidum.*  
  
  
*Panicum torridum.*  
*Caesalpinia bonducella.*  
*Eragrostis variabilis.*  
*Caesalpinia kauaiensis.*  
*Elaeocarpus bifidus.*  
  
*Colocasia antiquorum.*  
*Kyllingia monocephala.*  
  
*Labordea grayana.*  
*Adenostemma viscosum.*  
*Cenchrus calyculatus.*

Kamaní,	<i>Calophyllum inophyllum.</i>
“ (umbrella tree),	<i>Terminalia catappa.</i>
Kamaniula,	
Kamole,	<i>Jussiaea villosa.</i>
“	<i>Polygonum glabrum.</i>
Kanalau,	
Kanawao = Ka Puahanui,	<i>Broussaisia arguta,</i>
Kanio (striped cane, red and	
green),	<i>Saccharum officinarum.</i>
Kapala (edible plant),	
Kapana,	<i>Phyllostegia grandiflora.</i>
Kapaoa (dye-plant),	
Kapuapu (banana),	<i>Musa sapientum.</i>
Kaulu = Aulu,	<i>Sapindus oahuensis.</i>
“ “	<i>Sideroxylon sandwicense.</i>
Kaulu,	<i>Ochrosia macrocarpa.</i>
Kaupu,	<i>Aspidium aculeatum.</i>
Kauila = Kauwila,	<i>Alphitonia excelsa.</i>
Kauokahiki (ohia used for idols),	
Kauhiuhi = Uhiuhi = Kea,	<i>Caesalpinia kauaiensis.</i>
Kaunoa = Palolo,	<i>Cuscuta sandwichiana.</i>
Kaunoa Pehu,	<i>Cassytha filiformis.</i>
Kauwila = Kauila,	
Kawau,	<i>Byronia sandwicensis.</i>
Kea = Uhiuhi,	<i>Caesalpinia kauaiensis.</i>
Keahi,	<i>Chrysophyllum polynesianum.</i>
Keki,	
Kemau,	
Kenikeni (Lahaina cane),	<i>Saccharum officinarum.</i>
Ki,	<i>Cordyline terminalis.</i>
Kiawe (algaroba),	<i>Prosopis dulcis.</i>
Kiele (fragrant shrub),	
Kihe,	<i>Polypodium serrulatum.</i>
Kiikea (medicinal),	
Kihi (var. sweet potato),	<i>Ipomoea batatas.</i>
Kikania,	<i>Datura stramonium.</i>
“ (cockle bur),	<i>Xanthium strumarium echinatum.</i>
Kikawao,	<i>Aspidium cyatheoides.</i>
Kilau,	“ <i>glabrum.</i>

Kilau (common brake),	<i>Pteris aquilina.</i>
“	<i>Trichomanes davallioides.</i>
Kili,	
Kilika (silk),	<i>Morus nigra.</i>
Kilioopu,	<i>Cyperus auriculatus.</i>
Kioele,	<i>Kadua menziesiana.</i>
Kiponapona,	<i>Phyllostegia racemosa.</i>
Ko (sugar cane),	<i>Saccharum officinarum.</i>
Koa,	<i>Acacia koa.</i>
Koae (striped banana),	<i>Musa sp.</i>
Koaia = Koaie,	<i>Acacia koaia.</i>
Koalaukane (koa of which gods	
were made),	<i>Acacia koa var.</i>
Koali = Koaliai,	<i>Ipomoea tuberculata.</i>
Koali awahia,	“ <i>insularis.</i>
Koaweoweo, (striped cane),	<i>Saccharum officinarum.</i>
Kohekohe = Pipiwai,	<i>Eleocharis obtusa.</i>
Kokea (white cane),	<i>Saccharum officinarum.</i>
Kokio = Pualoalo,	<i>Hibiscus kokio.</i>
Kokio keokeo = Hauhele,	“ <i>arnottianus.</i>
Koko = Akoko.	<i>Euphorbia lorifolia.</i>
Kokolau,	<i>Campylotheca sp.</i>
Koli = Kaa pea (castor bean),	<i>Ricinus communis.</i>
Kolokolo,	<i>Polypodium pseudo-grammitis.</i>
Kolokolo kuahiwi = Lehua maka-	
noe,	<i>Lysimachia daphnoides.</i>
Koli,	<i>Acacia farnesiana.</i>
Konakona,	<i>Panicum nephelophilum.</i>
Kolea,	<i>Myrsine lessertiana.</i>
Kopiko,	<i>Straussia sp.</i>
Kopikoula,	
Kou,	<i>Cordia subcordata.</i>
Kuau,	<i>Asplenium kaulfussii.</i>
Kuahulu,	
Kukae nene,	<i>Coprosma ernodeoides.</i>
Kukae puaa,	<i>Panicum pruriens.</i>
Kukae pueo (a grass)	
Kukui,	<i>Aleurites moluccana.</i>
Kukuku = Anapanapa,	<i>Colubrina asiatica.</i>

Kulūi,	<i>Ptilotus sandwicensis.</i>
Kumurui,	<i>Pteris decipiens.</i>
Kumuohia = Ohai,	<i>Sesbania grandiflora.</i>
Kuolohia = Puukoa,	<i>Rhyncospora laxa.</i>
Kupalii,	
Kupaoa,	<i>Raillardia scabra.</i>
Kupukupu.	<i>Nephrolepis exaltata.</i>
Kupukupuufa,	
Laauala = Iliahi (sandal-wood),	<i>Santalum freycinetianum.</i>
Lahi (pale yellow cane),	<i>Saccharum officinarum.</i>
Lama,	<i>Maba sandwicensis.</i>
Lapalapa,	
Lauae kane,	
“ wahine.	
Lauhala = Hala,	<i>Pandanus odoratissimus.</i>
Lauhele,	
Laukahi,	<i>Aspidium truncatum.</i>
“	“ <i>flix-mas and other ferns.</i>
Laukane (striped cane),	<i>Saccharum officinarum.</i>
Laulele,	
Lauohai = Ohai,	<i>Sesbania grandiflora.</i>
Lehua = Ohia hamau,	<i>Metrosideros polymorpha.</i>
Lehua ahihi,	“ “ <i>var.</i>
Lehua apane = Ohia ai,	<i>Eugenia malaccensis.</i>
Lehua hamau,	“ <i>sandwicensis.</i>
Lehuakuikawao (var. of kalo),	<i>Colocasia antiquorum.</i>
Lehuamakanoe (Knudsen),	<i>Lysimachia daphnoides.</i>
Leleu (banana),	<i>Musa sp.</i>
Lena = Olena,	<i>Curcuma longa.</i>
Limu, a general term for all edible algae which the Hawaiians class as fish. Twenty-six names of varieties are given in Andrews' Dictionary.	
Lole,	<i>Asplenium acuminatum.</i>
Loulu hiwa (fan palm),	<i>Pritchardia martii.</i>
Loulu lelo,	“ <i>gaudichaudii.</i>
Luhea,	
Maalooa,	<i>Boehmeria stipata.</i>
Maau (a weed)	

Mahoe (Molokai shrub),	
Mahu = Olapa,	<i>Cheirodendron gaudichaudii.</i>
Maia (banana),	<i>Musa sp.</i>
“ maoli (fine cooking banana),	“ “
Maiapilo = Puapilo,	<i>Capparis sandwichiana.</i>
Maieli = Puaheawe,	<i>Cyathodes tameiameiae.</i>
Maile,	<i>Alyxia olivaeformis.</i>
Mailekakahiki,	
Makaloa = Makoloa,	<i>Cyperus laevigatus.</i>
Makou,	<i>Ranunculus hawaiiensis.</i>
“	<i>Botrychium subbifoliatum.</i>
Makuakua (bunch grass),	
Makuekue (adobe grass),	
Mamaki,	<i>Pipturus albidus.</i>
Mamane,	<i>Edwardsia [Sophora] chrysophylla.</i>
Mamo,	
Mana,	<i>Pteris irregularis.</i>
Mamane (tree),	
Manele (tree),	
Manena (medicinal),	
Manewa (beach grass),	
Manianiaula = Pili,	<i>Heteropogon contortus.</i>
Manienie,	<i>Stenotaphrum americanum.</i>
“	<i>Cynodon dactylon.</i>
Manono,	<i>Gouldia [all sp.]</i>
Manulele (ribbon cane),	<i>Saccharum officinarum.</i>
Mao,	<i>Abutilon incanum.</i>
Mao = Huluhulu (cotton)	<i>Gossypium tomentosum.</i>
Maohiohi,	<i>Stenogyne rugosa.</i>
Maoloa = Oloa,	<i>Neraudia melastomaefolia.</i>
Mapele,	
Ma'u,	<i>Sadleria pallida.</i>
Maua,	<i>Xylosma hawaiiensis.</i>
Maukuku (grass),	
Maunaloa,	<i>Dioclea violacea.</i>
Mauu (thick grass),	
Manulaili = Amaumau,	<i>Sadleria cyathodes.</i>
Mikioi (light red and green cane),	<i>Saccharum officinarum.</i>
Milikana = Milikani = Ii,	<i>Carica papaya.</i>

Milo (seeds cathartic)  
 Moa = Pipi,  
 Mohihi,  
 Mohihio,  
 Mokae (grass),  
 Mokihana,  
 Mokoloa = Makaloa,  
 Naenae,  
 Naio = Aīlahii (bastard sandal  
           wood),  
 Naioio (tree),  
 Naiu (shrub),  
 Na'u,  
 Naule (medicinal),  
 Naupaka,  
 Naunau (acrid plants),  
 Nanaku (rush),  
 Nanapau-Kou ?  
 Nanea = Palihilihi,  
 Nehe,  
 Neke,  
 Nene = Mauu (thick grass),  
 Nenelaau (sumac),  
 Nioi,  
 Niu (coconut)  
 Niuhiwa (banana),  
 Niulelo,  
 Nohuanu,  
 Nohunohu,  
 Noulū = Loulu,  
 Noni,  
 Nukuiwi = Kaiwi,  
 Oa (tree)  
 Oaliimakalii,  
 Oha (tree).  
 Ohaha = Puaala,  
 Ohawai,  
 "  
 Ohai = Lauohai,

*Thespesia populnea.*  
*Psilotum triquetum.*  
*Stenogyne scrophularioides.*

*Pelea anisata.*  
*Cyperus laevigatus.*  
*Dubautia plantiginea.*  
*Myoporum sandwicense.*

*Gardenia brighamii.*

*Scaevola sp.*

*Cordia subcordata.*  
*Vigna lutea.*  
*Lipochaeta [all sp.]*  
*Aspidium unitum.*

*Rhus semialata.*

*Cocos nucifera.*  
*Musa sp.*  
*Cocos nucifera var.*  
*Geranium humile.*  
*Tribulus cistoides.*  
*Pritchardia sp.*  
*Morinda citrifolia.*  
*Strongylodon lucidum.*

*Schizaea robusta.*

*Brighamia insignis.*

" "  
*Clermontia [all sp.]*  
*Sesbania grandiflora.*



Ohe (bambu),	<i>Bambusa vulgaris.</i>
"	<i>Reynoldsia sandwicensis.</i>
"	<i>Isachne distichophylla.</i>
"	<i>Coix lacryma.</i>
Ohelo,	<i>Vaccinium reticulatum.</i>
Ohelokai,	<i>Lycium sandwicense.</i>
Ohelopapa (strawberry),	<i>Fragaria chilensis.</i>
Ohenaupaka,	<i>Scaevola glabra.</i>
Oheohe,	<i>Vittaria elongata.</i>
Ohia,	<i>Metrosideros polymorpha.</i>
" (dark red cane),	<i>Saccharum officinarum.</i>
Ohia-ai = Lehuaapane,	<i>Eugenia malaccensis.</i>
Ohia-ha = Lehuahamau,	" <i>sandwicensis.</i>
Ohia Lehua,	<i>Metrosideros polymorpha.</i>
Ohiaku,	<i>Hymenophyllum recurvum.</i>
Oi,	<i>Verbena bonariensis.</i>
Oi Puanui,	<i>Stachytarpheta dichotoma.</i>
Okupukupu,	<i>Nephrolepis exaltata.</i>
Olapa = Mahu,	<i>Cheirodendron gaudichaudii.</i>
Olena (turmine),	<i>Curcuma longa.</i>
Oliana (yellow cane),	<i>Saccharum officinarum.</i>
Oloa = Naoloa,	<i>Neraudia melastomaeifolia.</i>
Olohua = Popolo,	<i>Solanum nodiflorum.</i>
Olomea,	<i>Perottetia sandwicensis.</i>
Olona,	<i>Touchardia latifolia.</i>
Olua,	<i>Phegopteris punctata</i>
Olupua = Pua,	<i>Olea sandwicensis.</i>
Opuhi = Awapuhi (ginger),	<i>Zinziber zerumbet.</i>
Owalii,	<i>Asplenium trichomanes.</i>
"	<i>Pteris cretica.</i>
Pai,	<i>Polypodium hymenophylloides.</i>
Painiu,	<i>Astelia veratroides.</i>
Pakaha,	<i>Sphacele hastata.</i>
Pala,	<i>Marattia douglasii.</i>
Palaa,	<i>Microlepia tenuifolia.</i>
Palani (purple cane),	<i>Saccharum officinarum.</i>
Palapaloi,	<i>Microlepia strigosa.</i>
" aumakua,	<i>Phegopteris crinalis.</i>
" laulii,	<i>Lindsaya pumila.</i>
" o Kamapuaa,	<i>Aspidium globuliferum.</i>

Pamakani,	<i>Senecio sandwicensis.</i>
“	<i>Phyllanthus sandwicensis.</i>
Pamoho,	<i>Nephrolepis exaltata.</i>
“	<i>Doodia media.</i>
“	<i>Asplenium resectum.</i>
Papaa (purple cane),	<i>Saccharum officinarum.</i>
Papala,	<i>Pisonia umbellifera.</i>
Papala,	<i>Charpentiera ovata.</i>
Papaoi,	<i>Aspidium haleakalense.</i>
Pauohiiaka,	<i>Jacquemontia sandwicensis.</i>
Paunoa,	<i>Aspidium squamigerum.</i>
Pawale = Uhauhako,	<i>Rumex gigantea.</i>
Peahi,	<i>Polypodium spectrum.</i>
Pia,	<i>Tacca pinnatifida.</i>
Piia,	<i>Dioscorea pentaphylla.</i>
Piipii,	<i>Chrysopogon aciculatus.</i>
Pili = Manienieula,	<i>Heteropogon contortus.</i>
Pilikai,	<i>Argyreia tiliaefolia.</i>
Pilo,	<i>Kadua laxifolia.</i>
“	<i>Coprosma [all sp.]</i>
Pioi = Uhi = Ulehihi,	<i>Smilax sandwicensis.</i>
Pipi = Moa,	<i>Psilotum triquetum.</i>
Pipiwai,	<i>Eleocharis obtusa.</i>
Poha,	<i>Physalis peruviana.</i>
Pohuehue,	<i>Ipomoea pes-caprae.</i>
Polinalina,	<i>Vitex trifolia.</i>
Pololei,	<i>Ophioglossum nudicaule.</i>
Pololo = Kaunoa,	<i>Cuscuta sandwichiana.</i>
Poolanui,	<i>Coreopsis cosmoides.</i>
Popolo,	<i>Cyanea solanacea.</i>
“	<i>Phytolacca brachystachys.</i>
“	<i>Solanum aculeatissimum.</i>
“ olohua,	“ <i>nodiflorum.</i>
Popoulu (banana),	<i>Musa sp.</i>
Pua = Olupue,	<i>Olea sandwicensis.</i>
Puaainaka,	<i>Stenogyne rotundifolia.</i>
Puaala = Ohaha = Ohawai,	<i>Brighamia insignis.</i>
Puahanui = Kanawao,	<i>Broussaisia arguta.</i>

Puahekali,  
 Puakala (Mexican poppy),  
 “  
 Puakauhi = Awikiwiki,  
 Puakawau (tree),  
 Puakeawe = Maieli,  
 Pualele (sow-thistle),  
 Pualoalo = Kokio,  
 Puamakanui = Akaakaawa,  
 Puaole (flowerless cane),  
 Puapilo = Maiapilo,  
 Pulihilihi = Nanea,  
 Puukoa = Kuolohia,  
 Uala (sweet potato),\*  
 Uala lehu (yellow cane),  
 Uhi = Pioi = Ulehihi,  
 Uhaohakeo = Pawale,  
 Uhiuhi = Kea = Kalamona = Ka-  
   uhiuhi,  
 Ulei,  
 Ulehihi = Pioi = Uhi,  
 Ulu (breadfruit),  
 Uluhi = Unuhi = Enuhe,  
 Ulupua (mistake for Olupua),  
 Unuhi = Uluhi = Enuhe,  
 Uulei = Ulei,  
 Uiwi = Awiwi,  
 Wahale = Loulu,  
 Wahine noho mauna,  
 Waimakanui = Akolea,  
 “  
 Walahee,  
 Waoke = Wauke (paper mul-  
   berry),  
 Wawae iole (mouse foot)  
 Wiliwili,

*Lysimachia hillebrandii.*  
*Argemone mexicana.*  
*Cyanea solenocalyx.*  
*Canavalia galeata.*  
  
*Cyathodes tameiameiae.*  
*Sonchus oleraceus.*  
*Hibiscus kokio.*  
*Hillebrandia sandwicensis.*  
*Saccharum officinarum.*  
*Capparis sandwichiawia.*  
*Vigna lutea.*  
*Rhynchospora laxa.*  
*Ipomaea batatas.*  
*Saccharum officinarum.*  
*Smilax sandwicensis.*  
*Rumex giganteus.*  
  
*Caesalpinia kauaiensis.*  
*Osteomeles anthyllidifolia.*  
*Smilax sandwicensis.*  
*Artocarpus incisa.*  
*Gleichenia sp.*  
*Olea sandwicensis.*  
*Gleichenia sp.*  
*Osteomeles anthyllidifolia.*  
*Kadua cookiana.*  
*Pritchardia martii.*  
*Polypodium tamariscinum.*  
*Phegopteris keraudiana.*  
*Pteris excelsa.*  
*Plectronia odorata.*  
  
*Broussonetia papyrifera.*  
*Lycopodium cernuum.*  
*Erythrina monosperma.*

\* More than sixty varieties are named by the Hawaiians, but many of these names are local, and probably the distinguishable varieties do not exceed half a dozen.

*Geographical and Mineralogical Specimens.*

While the geological formation of these islands is wholly volcanic, excepting the infinitely small deposits resulting from the detritus of the coral reefs, there is no such variety of mineral formation as is seen for example in Vesuvius. The chemical composition of Hawaiian lavas both ancient and modern is essentially the same. Considering the enormous scale on which volcanic energy has been exerted in this locality it is very remarkable that there is so little sulphur to be found here; a fact probably due to the numerous surface eruptions which consume the beds formed during previous quiescent periods, as was noticed in May, 1880, when the chief bed of sulphur at the south end of Kilauea was rapidly oxidized by the heat of a small outflow from Halemaumau. It has long been noticed that sulphur deposits indicate a waning phase of volcanic energy and with the Hawaiian vents the failure of activity has not yet been indicated. To the absence of subterranean sulphur deposits may be attributed the marked absence of hot and mineral springs on this group.

Phases of volcanic manifestations are very uniform on Hawaii, and yet with the unusual facilities for observation that the prolonged and approachable eruptions afford, geologists are still in doubt as to the mode of formation of some of the common products of an eruption, as for example the so-called *aa*. Curiously no prominent geologist has yet examined a lava flow in action, except in the miniature flows within the crater of Kilauea, and as it is a product of *action* it is not surprising that it is not well understood; its rough and very peculiar structure makes it a well-remembered substance to all who have journeyed much over lava streams.

Of the older lavas the *phonolite* or clinkstone is well represented in case 18, MR. It is the material from which the adzes were formed and hence has a number of native names. The finest and most compact is sparingly diffused, generally at high elevations, but is found on all the large islands. An old lava of considerable hardness and durability and of light gray color is found in the beds exposed in all the large craters, as Mokuaweoweo, Haleakala and Kilauea. While this is easily decomposed by steam saturated with sulphurous compounds, it seems to stand well under the action of frost on Mauna Kea. A much more common form of hard lava is

found in all the old lava streams, and although cellular is easily worked and has lately been much used in building, as in this Museum. Columnar basalt occurs both on Hawaii [in the gorge of the Wailuku river], on Kauai and elsewhere, but the prisms have not that regularity and beauty of form seen in those of Antrim, Ireland, Auvergne in France, and around the extinct volcanoes of the Eifel on the Rhine. The old lava is sometimes beautifully mottled with olivine, and in other cases the cells, often of considerable size, are filled with zeolites, and more rarely contain quartz crystals. Masses of milky quartz have been found in the tufaceous deposits of Punch Bowl and are in this collection. [5674]

The forms of recent lava are various; the *pahoehoe* solidifying in sheets, crust or ropy masses; the froth of an eruption appearing as basaltic pumice or *limu*; the drops ejected from a molten pool spin out the well-known *Pele's Hair*; the irregular motion of a lava stream forms slag and the mysterious *aa*; the violent commixture of a hot lava with water produces "*Black gravel*" and in some way not fully understood the tufa or ash that forms the bulk of the coast craters.\*

The action of different vapors on the lava crust in Kilauea and elsewhere in active regions produces most curious variations of color, presenting the iridescence of some specimens of anthracite coal, and even the bright metallic lustre of gold. The effect of superheated steam on the solubility of rocks is well seen in the formation of the cave stalactites, of which this collection possesses many examples.†

The temperature of the molten lava is not known, but must be very high or else Hawaiian lavas must be very fusible, since after a flow on the surface of perhaps forty miles the lava has retained so remarkable a degree of liquidity as to penetrate the narrow fissures in a decayed stump as may be seen in the extraordinary specimen from Ookala, Hawaii [2284]. The specific gravity of these speci-

\* It should be noticed that the gentle passage of a hot lava into water is not accompanied by any violent action, and streams have been seen moving quietly under the water where they enter the sea, or even over the surface of a small pool. It seems to be mainly where lava is rapidly cooled by the action of evaporating water that the columnar structure occurs.

† I have seen these stalactites forming in the caves of Kilauea in 1865. They are also found in caves in lava flows, notably in that of 1881, near Hilo, hence the supposition that they are of igneous instead of aqueous origin. This is not the place to argue the matter, but careful comparison of microscopic sections of those from Kilauea with those of undoubted igneous origin convinces me that my observations were correct.

mens is very great, far surpassing that of any of the stalactites, which however, if formed in a molten state must have had wonderful liquidity as the edges of the cracks under which they form on the cave roofs are in close proximity if not in actual contact.

Genuine *pumice* is adventitious and found only washed ashore; examples may be seen in case 27, MR. The soils or products of the decomposition of lava are, as might be supposed, comparatively uniform, and vary chiefly in the proportional admixture of vegetable mould, or near the shore, in the limestone of the coral reef mechanically disseminated. The proportion of the different oxides of iron seems to vary considerably as indicated by the different shades of brown and red in certain soils. Red ochre is not uncommon and was used by the old Hawaiians both as a dye and as a putty.

Clays being the result of the decomposition of feldspathic or crystalline rocks are not found here: certain tenacious soils are suitable for adobe and such earth has also been burned into a poor quality of brick [5626].

The Geological and Mineralogical specimens are at present in or upon Case 28 in the Main Room.

- 2283 Lava formation from Ookala, Hawaii. Walter M. Giffard.
- 2284 " " " " W. G. Irwin.
- 2285 Petrified banana found beneath two lava beds of great antiquity in digging the foundation of the mill at Hilea, Kau, Hawaii. In the Kahili Room.
- 2286 Petrified palm found with the preceding specimen. W. G. Irwin. KR.
- 2287 Lava formation from Ookala, Hawaii. W. M. Giffard,
- 2288 " drops. Ookala, Hawaii. W. M. Giffard.
- 2289 " " " " W. M. Giffard.
- 5351 Salt from Aliapaakai; a large mass of crystalline crust. Joseph Kealohakui.
- 5352 Sounding sand from Mana, Kauai. V. Knudsen. HG.
- 5353 Obsidian from New Zealand. C.
- 5354 Lava pendant from cave, molten formation. HG.
- 5355 Sulphur; massive. HG.
- 5356 Lava encrusting a branch of ohia. The molten lava forms a jacket two inches thick, and has consumed the bark but slightly scorched the wood. Hawaii. HG.

- 5357 Compact lava from an ancient flow. HG.  
 5358 Stalagmite from cave in Kilauea. HG.  
 5359 " " " HG.  
 5360 " " " massive; from floor of cave. HG  
 5361 Smooth crust of lava stream.  
 5362 Corrugated crust stained with oxide of iron.  
 5363 Rope lava from flow.  
 5364 " " "  
 5365 " " "  
 5366 " " " showing under side of crust.  
 5367 " " " In all specimens of rope lava, and indeed of crust in general, the outer surface where the cooling is rapid shows a close vitreous structure, while the slower cooling interior is more cellular and stony. This may be seen in the accompanying impression from the lava itself.



- 5368 Crust section.  
 5369 Push from running lava stream, Kilauea. HG.  
 5370 " " " " " " HG.  
 5371 " " " " " "  
 5372 " " " " " old and red. HG.  
 5373 " " " " " "  
 5374 Phonolite chip with nodule of olivine enclosed. Brought by Miss I. Bird from the adz factory on Mauna Kea. HG

- 5375 Crust from the floor of a lava cave. H. M. Liliuokalani.  
 5376 Fresh crust from Kilauea.  
 5377 Iridescent crust from Kilauea.  
 5378 Crust from blow-hole, sulphurized. HG.  
 5379 Crust from the edge of Dana pool with drippings.  
 5380 Ropy, compact crust from flow.  
 5381 Limu or basaltic pumice. Mauna Loa. When fresh this  
     limu is so green as to give the appearance of sod to the  
     lava beds covered with it. This was the case on the  
     lee side of Mokuaweoweo in 1880. Exposed to the  
     weather it finally loses its bright color.  
 5382 Limu and scoriaceous lava.  
 5383 Aa. This curious formation occurs in large tracts on lava  
     flows, especially where there is a marked change of level  
     in the stream. The roughness of such a formation is in-  
     describable.  
 5384 Plastic work in fresh lava. It has always been customary  
     for visitors to Kilauea when the molten lava was within  
     reach to imbed coins in the soft lava. During the flow  
     of 1881, molten lava was easily attainable, near Hilo,  
     and many amused themselves and others by working the  
     cooling lava into rude cups and vases; these, however, are  
     exceedingly brittle. H. R. H. Keelikolani.  
 5385 ditto.  
 5386 ditto.  
 5387 ditto.  
 5388 Ochreous lava.  
 5389 Black sand conglomerate.  
 5390 Olivine, massive.  
 5391 Scoria, compact.  
 5392     "     "  
 5393     "  
 5394 Calcareous deposit from Niihau. H. M. Liliuokalani.  
 5395 Aa, fine grain.  
 5396 Aa and limu.  
 5397 Crust to show texture.  
 5398 Cave spatters, brown.  
 5399     "     "     "  
 5400 Aa, heavy. Mauna Loa.



- 5401 Stalagmite from a cave in a lava flow. W. M. Giffard.  
 5402-3 " " " " W. M. Giffard.  
 5404 " resembling cast iron. W. M. Giffard.  
 5405-6 " rough, light brown. HG.  
 5407-8 " " HG.  
 5409 " much corroded. HG.  
 5410 " covered with drops of red lava. HG.  
 5411 "  
 5412 " large mass. HG.  
 5413-14 Portion of the floor of a lava cave, with red drops. HG.  
 5415 " " " " red. HG.  
 5416 " " " " white crust. HG.  
 5417-18 " " " " HG.  
 5419 Limu passing into slag. HG.  
 5420 Iron oxide.  
 5421 " "  
 5422 Limu from orifice of the flow of 1868. Kau, Hawaii. HG.  
 5423 Pele's Hair, Kilauea, 1892. L. de L. Ward.  
 5424 Coin in lava, " " L. de L. Ward.  
 5425 Crust from the flow of 1868. Kau, Hawaii. HG.  
 5426-30 Stalagmites.  
 5431 Stalactite with bubbly end.  
 5432-33 " " contorted end.  
 5434 "  
 5435 Trachytic pumice found in shore sand, Kauai. V. Knudsen.  
 5436 Nodule from the summit of Mauna Kea. E. D. Preston.  
 5437 Lava. Haleakala, Maui. HG.  
 5438 Crust from windward side of Oahu. HG.  
 5439 Lava from the roof of a cave in Rooke's Valley, Nuuanu, Oahu. HG.  
 5440 Salt from Aliapāakai. HG.  
 5441 Gypsum. HG.  
 5661 Rock from Moanalua, Oahu. A. F. Judd, Jr.  
 5662-68 Rock from Haena, Waianae, Oahu. A. F. Judd, Jr.  
 5669 Calcareous specimens from Rocky Hill, Punahou, Oahu. A. F. Judd, Jr.  
 5670 Talcose rock, Puunui, Oahu. A. F. Judd, Jr.  
 5671 Rock from Moanalua, Oahu. "

- 5672-73** Fossilized wood consisting of small twigs and branches found in tufa in the neighborhood of Aliapaakai. A. F. Judd, Jr.
- 5674** Quartz nodule from Punchbowl, Honolulu. HG.
- 5675** Tufa. " " HG.
- 5676** Lava, Kapalama, Oahu. HG.
- 5677** Selenite crystals. HG. Waimea, Kauai. V. Knudsen.
- 5678** Cellular lava so full of air cells as to float on water. Oahu.
- 5679** Quartz from cavities in ancient lava, North Kohala. Rev. E. Bond.
- 5680** Selenite from ancient lava cavities, Kauai. HG.
- 5681** " smaller crystals, Kauai. HG.
- 5682** Lava with very irregular cavities. Museum quarry.
- 5683** Zeolitic lava, Oahu. HG.
- 5684** Quartz in irregular masses, Kaneohe, Oahu. HG.
- 5685** Olivine, Aliapaakai, Oahu.
- 5686** Lava crusts, compact but thin. Telegraph Hill, Oahu. HG.
- 5687** Indurated tufa, Punchbowl, Oahu. HG.
- 5688** Decomposing lava with olivine, Koolau, Oahu.
- 5689** Heavy olivine lava, Kaula. H. M. Liliuokalani.
- 5690** Tufa with coral rock imbedded, Kaula. H. M. Liliuokalani.
- 5691** Olivine mass in tufa, Kaula. H. M. Liliuokalani.
- 5692** Lava crust, " "
- 5693** Coarse grain tufa, " "
- 5694** Cellular lava, " "
- 5695** Pitch stone from the edge of a dyke at Nuuanu Pali, Oahu. HG.
- 5696** Iron oxide. HG.

Many of the mineralogical specimens from the Government Museum have not yet been unpacked for want of room. The Curator will be glad to receive contributions of skulls, or better still whole skeletons from any part of Polynesia. Bird skins, shells, woods, corals, dried plants, in short any specimens of Polynesian Natural History, when authentic, will be gratefully received, and due credit given to the donor.

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